

# Oil and Gas Unit Quarterly Update

[MARCH 1990]

#### ENERGY RESOURCES CONSERVATION BOARD

Editorial correspondence to

Drilling and Production Department Energy Resources Conservation Board

1990 edition, published quarterly

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#### NEW UNITS

Jumpbush Upper Mannville Unit Pembina Belly River DDD West Unit Wintering Hills Gas Unit No. 2

#### REVISED UNITS

Aerial Mannville A Unit Alderson Milk River Gas Unit No. 1 Bashaw D-3A Unit No. 1 Beaverhill Lake Viking Gas Unit Bellshill Lake Ellerslie Unit Bigoray Nisku K Unit No. 1 Bigoray Ostracod Unit No. 1 Blue Rapids Cardium Unit No. 1 Boundary Lake South Triassic E Pool Unit Brazeau River Gas Unit No. 1 Brazeau River Nisku A Pool Unit Brazeau River Nisku F Pool Unit Brownfield Gas Unit Calgary Basal Quartz Unit No. 1 Calgary Crossfield Unit No. 1 Calgary Elkton Unit No. 1 Caroline Cardium B Sand Unit No. 1 Carrot Creek Cardium K Unit No. 1 Carstairs Elkton Unit Champlin - Peruvian Pembina Cardium Unit Charron Gas Unit No. 1 Chigwell Viking B Unit Clive D-2 Unit No. 1 Clive D-3A Unit No. 1 Corbett Creek Viking Gas Unit No. 1 Crossfield Cardium Unit No. 1 Crossfield Cardium Unit No. 2 Crossfield Turner Valley Unit No. 1 Cyn-Pem Cardium D Unit No. 1 Cynthia Cardium Unit No. 5 Cynthia East Unit Donalda Unit Drumheller Basal Quartz Gas Unit No. 1 Dunvegan Gas Unit No. 1 East Swan Hills Unit Elnora Gas Unit Enchant Gas Unit Erskine Gas Unit No. 1 Erskine Leduc D-3A Unit No. 1 Flat Lake Gas Unit Garrington Cardium Unit No. 3 Garrington Elkton Gas Unit No. 1 Ghost River Gas Unit Gilby Basal Mannville B Unit No. 1 Gilby Jurassic B Unit No. 1 Gilby Lower Mannville Ostracod Unit No. 1 Gleichen Unit No. 1

#### REVISED UNITS (cont'd)

Greencourt Gas Unit No. 1 Hanlan Swan Hills Pool Gas Unit No. 1 Harmattan East Unit No. 1 Holmberg Mannville Gas Unit Hughenden Basal Quartz North No. 1 Unit Huxley Gas Unit No. 1 Jarrow Unit Jarrow Gas Unit No. 2 Judy Creek West Beaverhill Lake Unit Jumping Pound West Unit No. 1 Kaybob Notikewin Unit No. 1 Killam Cameron Sand Unit Leduc-Woodbend D-2 Unit Leduc-Woodbend D-3 Unit Lobstick Cardium Unit Lone Pine Creek D-3 Gas Unit No. 1 Lone Pine Creek Gas Unit No. 1 Lone Pine Creek Gas Unit No. 5 Malmo D-3B Gas Unit Maple Glen Gas Unit Markerville Gas Unit No. 1 Matziwin-Gem Gas Unit No. 2 Mazeppa Crossfield Unit No. 1 Medicine River Pekisko C Pool Unit Meekwap D-2A Unit No. 1 Monogram Gas Unit Niton Unit North Oyen Gas Unit Oven Gas Unit No. 4 Patricia Gas Unit No. 1 Pembina Belly River AA Pool Unit Pembina Belly River B East Unit Pembina Belly River DDD Unit No. 1 Pembina Cardium Unit No. 2 Pembina Cardium Unit No. 10 Pembina Cardium Unit No. 31 Pembina Keystone Cardium Unit No. 1 Pembina West Cardium Unit No. 25 PouceCoupe South Boundary B Pool Unit No. 1 Provost Gas Unit No. 3 Rainbow Gas Unit No. 1 Rainbow Keg River B Unit Rainbow Keg River E Unit Rainbow Keg River F Unit Rainbow Keg River G and H Unit Rainbow Keg River O Unit Rainbow South Keg River A Unit Rainbow South Keg River E Unit Ricinus D-3A Gas Unit No. 1 Rowley Belly River Gas Unit No. 1 Rycroft Halfway Unit No. 1 South Buck Lake Cardium Unit No. 1 South Garrington Cardium B Unit No. 1 South Pembina Cardium Unit South Three Hills Creek Unit Swan Hills Unit No. 1

#### REVISED UNITS (cont'd)

Three Hills Creek Pekisko Unit No. 1
Virginia Hills BHL Unit No. 2
Virginia Hills Unit No. 1
Wainwright Colony Sand Gas Unit No. 1
Wainwright Unit No. 2
Wainwright Unit No. 4
Warburg Belly River M Unit
Willesden Green Viking H Unit No. 1
Wilson Creek Unit No. 1
Wood River D-2C Unit

The following units were revised but Company names, Unit Areas, or Final Participation were not affected.

Calmette Viking Gas Unit Crossfield Cardium Unit No. 2 Ferrier Cardium Unit No. 4 Harmattan East Unit No. 1 Highvale Cardium C Unit Holmberg Mannville Gas Unit Inverness Unit No. 1 Joarcam Viking Unit No. 2 Jumping Pound West Unit No. 2 Lookout Butte Rundle Unit No. 1 Lost Point Lake Viking Unit Medicine Hat Roseglen Gas Unit Medicine River Unit No. 4 Pembina Cardium Unit No. 4 Tide Lake Gas Unit No. 2 Three Hills Ostracod Unit No. 1 West Nipisi Unit No. 1 Whitecourt Gas Unit No. 1

## JUMPBUSH UPPER MANNVILLE UNIT

Located in the Jumpbush Field

Unit Operator - Norcen Energy Resources Limited

Initial Effective Date - 1 January 1990

\*Unitized Zone - Glauconitic Sand within the Unit Area

\*Unitized Substance - Petroleum substances in or obtained from the Unitized zone

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd. Anadarko Petroleum of Canada Ltd.	7.208848 25.000000
Canpar Holdings Ltd. Norcen Energy Resources Limited Placer CEGO Petroleum	1.124452 41.666700
a Division of Placer Dome Inc.	25.000000 100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents.

R.20 R.19 W.4M. T.20 T.19

# JUMPBUSH UPPER MANNVILLE UNIT



INITIAL EFFECTIVE DATE- 1 JANUARY 1990
UNIT OPERATOR-NORCEN ENERGY RESOURCES LIMITED

## PEMBINA BELLY RIVER DDD WEST UNIT

Located in the Pembina Field

Unit Operator - Norcen Energy Resources Limited

Initial Effective Date - 1 January 1990

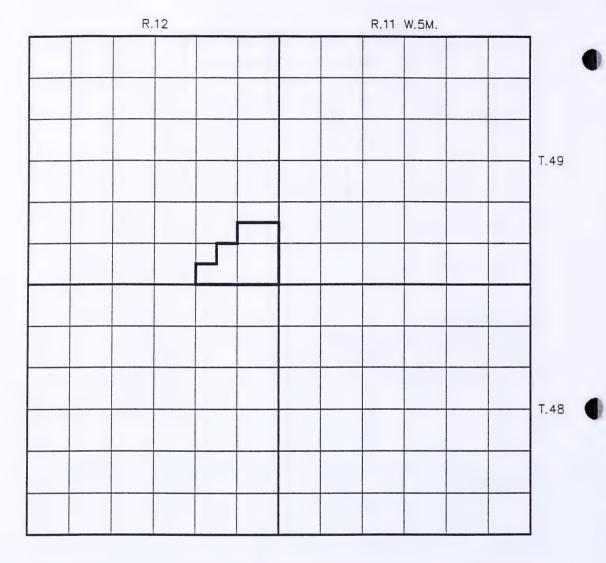
\*Unitized Zone - Belly River Sand within the Unit Area

\*Unitized Substance - Petroleum substances in or obtained from the Unitized zone

Working Interest Owners	Per Cent Participation
Enerplus Resources Corporation	1,21091
Mark Resources Inc.	1.21091
Norcen Energy Resources Limited	47.21689
Prairie Oil Royalties Company, Ltd.	5.24632
Royal Trust Energy Resources Corporation	21.95185
RTEC Two Resources Inc.	21.95185
Ultramar Oil and Gas Canada Limited	1.21127
	100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



PEMBINA BELLY RIVER DDD WEST UNIT

ERCB

INITIAL EFFECTIVE DATE- 1 JANUARY 1990
UNIT OPERATOR-NORCEN ENERGY RESOURCES LIMITED

#### WINTERING HILLS GAS UNIT NO. 2

Located in the Wintering Hills, Wayne-Rosedale and Hussar Fields

Unit Operator - Sceptre Resources Limited

Initial Effective Date - 1 January 1990

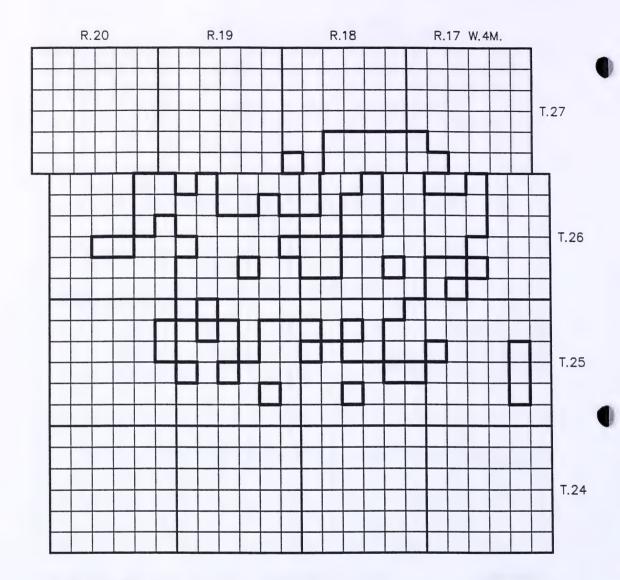
\*Unitized Zone - Viking, Glauconitic, Ostracod and Basal Quartz
Formations within the Unit Area, excepting the
excepted zone

\*Unitized Substance - Gas in or obtained from the Unitized zone

Working Interest Owners	Per Cent Participation
Dinas Corporation Limited ICG Resources Ltd.	0.094 0.041
Sceptre Resources Limited	72.090
Westmin Resources Limited	$\frac{27.775}{100.000}$

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



WINTERING HILLS GAS UNIT NO.2

ERCB

INITIAL EFFECTIVE DATE- 1 JANUARY 1990 UNIT OPERATOR-SCEPTRE RESOURCES LIMITED

#### AERIAL MANNVILLE A UNIT

Located in the Aerial Field

Unit Operator - Anadarko Petroleum of Canada Ltd.

Initial Effective Date - 1 August 1968

Participation Revised - 20 February 1990

\*Unitized Zone - Blairmore Basal Quartz Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

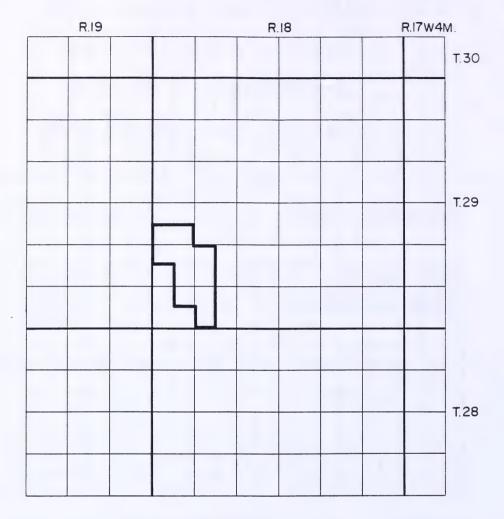
#### Working Interest Owners

Per Cent Participation

Anadarko Petroleum of Canada Ltd.	63.832
Norcen Energy Resources Ltd.	4.921
NCE 0il & Gas (88-1) Ltd.	17.697
Pembina Resources Limited	13.550
	100.000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# AERIAL MANNVILLE A UNIT

INITIAL EFFECTIVE DATE - AUGUST 1, 1968

UNIT OPERATOR - ANADARKO PETROLEUM OF CANADA LTD.

### ALDERSON MILK RIVER GAS UNIT NO. 1

Located in the Alderson Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 December 1975

Participation Revised - 1 January 1990

\*Unitized Zone - Milk River Formation

\*Unitized Substance - Gas

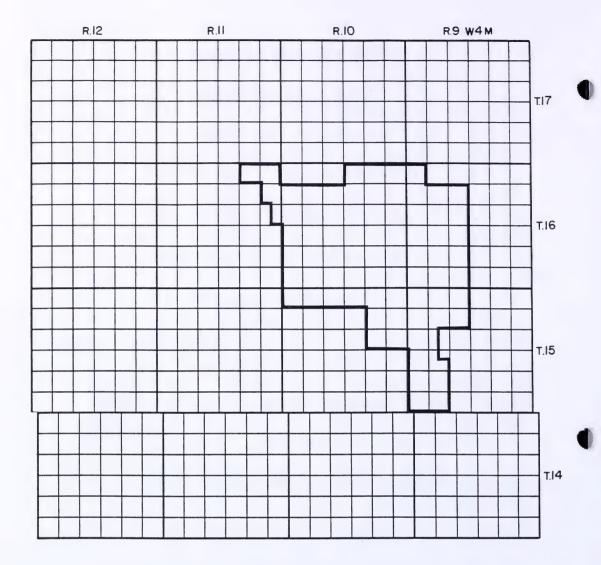
#### Working Interest Owners

Per Cent Participation

Amoco Canada Resources Ltd. Esso Resources Canada PanCanadian Petroleum Limited Petro-Canada Inc. 3.63036 38.94389 2.34495 55.08080 100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



ALDERSON MILK RIVER GAS UNIT NO.I INITIAL EFFECTIVE DATE - I DECEMBER 1975 UNIT OPERATOR- PETRO-CANADA INC.



#### BASHAW D-3A UNIT NO. 1

Located in the Bashaw Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 December 1977

Participation Revised - 1 October 1989

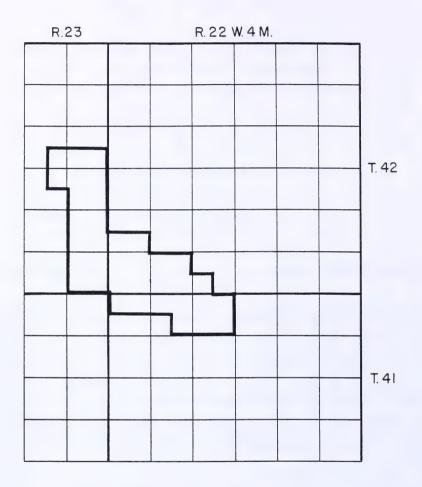
\*Unitized Zone - Leduc Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Adamac Oil & Gas Limited 2.3	307350
American Leduc Petroleums Ltd. 4.8	396710
Amoco Canada Resources Ltd. 5.3	390640
Bellport Resources Ltd. 0.0	082530
Chevron Canada Resources 0.9	930650
Corvair Oils Ltd.	280400
Encor Energy Corporation Inc. 0.7	770090
Enerplus Resources Corporation 0.3	352150
Esso Resources Canada 3.2	286950
Gulf Canada Resources Limited 50.7	741510
Jerry Chambers Exploration Co. 0.1	107180
Patricia R. McLean 0.0	032300
NCE 0il & Gas (87-1) Ltd. 0.1	119530
Oakfern Petroleums Ltd.	154030
PanCanadian Petroleum Limited 23.4	464100
Passport Petroleums Ltd.	153320
	30560
	000000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



BASHAW D-3A UNIT NO.1

INITIAL EFFECTIVE DATE - DECEMBER 1, 1977

UNIT OPERATOR - GULF CANADA RESOURCES LIMITED



#### BEAVERHILL LAKE VIKING GAS UNIT

Located in the Beaverhill Lake Field

Unit Operator - Northwestern Utilities Limited

Initial Effective Date - 1 July 1967

Participation Revised - 1 March 1990

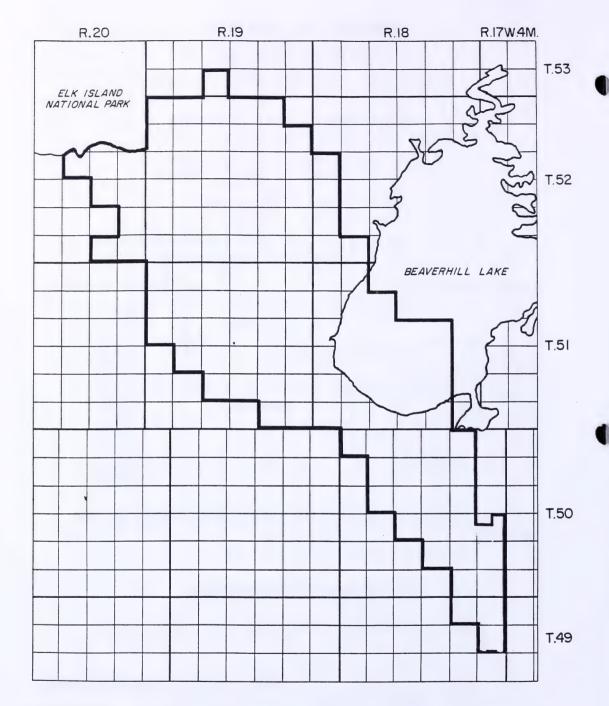
\*Unitized Zone - Viking Formation

\*Unitized Substances - Natural gas and other hydrocarbons (except petroleum and coal)

Working Interest Owners	Per Cent Participation
Alba Petroleum Corporation	0.171771
ATCOR Ltd.	0.283972
Corvair Oils Ltd.	0.022716
Enerplus Resources Corporation	0.043198
Esso Resources Canada	2.528780
Esso Resources Canada Limited	1.051026
Northwestern Utilities Limited	95.375347
Raeson Investments Ltd.	0.005679
Scotia Oils Limited	0.029423
Signalta Resources Limited	0.189314
Star Oil & Gas Ltd.	0.255576
Unocal Canada Limited	0.043198
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



BEAVERHILL LAKE VIKING GAS UNIT

ERCB

INITIAL EFFECTIVE DATE - 1 JULY 1967
UNIT OPERATOR- NORTHWESTERN UTILITIES LIMITED

#### BELLSHILL LAKE ELLERSLIE UNIT

Located in the Bellshill Lake Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 November 1970

Participation Revised - 1 January 1990

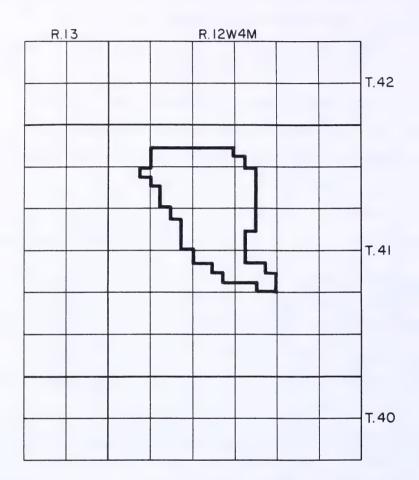
\*Unitized Zone - Ellerslie Member of Blairmore Group

\*Unitized Substance - Petroleum, Natural Gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	3.10641
Acquifund Resources Limited	1.03545
Esso Resources Enterprises Ltd.	7.42803
Husky Oil Operations Ltd.	5,44338
Keles Production Company	0.04539
Petro-Canada Inc.	75.91274
Shell Canada Limited	3.32616
Union Pacific Resources	3.70194
	100.00000

<sup>\*</sup> For a complete definition of unitized zone and substance see Unit Documents

(For Area - See Reverse Side)



BELLSHILL LAKE ELLERSLIE UNIT

INITIAL EFFECTIVE DATE - NOVEMBER 1, 1970 UNIT OPERATOR - PETRO - CANADA INC.

#### BIGORAY NISKU K UNIT NO. 1

Located in the Bigoray Field

Unit Operator - Pensionfund Energy Resources Limited

Initial Effective Date - 1 August 1986

Participation Revised - 1 January 1990

\*Unitized Zone - Nisku Formation

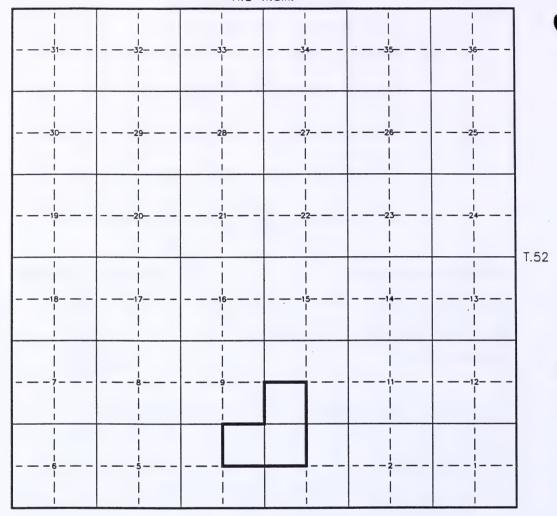
\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	3.02612
Esso Canada Resources	2.02394
Harvard International Resources Ltd.	46.46300
Pensionfund Energy Resources Limited	46.46300
Petro-Canada Inc.	2.02394
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents.

(For Area - See Reverse Side)

R.8 W.5M.



## BIGORAY NISKU K UNIT NO. 1



INITIAL EFFECTIVE DATE- 1 AUGUST 1986
UNIT OPERATOR-PENSIONFUND ENERGY RESOURCES LIMITED

## BIGORAY OSTRACOD UNIT NO. 1

Located in the Bigoray Field

Unit Operator - Norcen Energy Resources Limited

Initial Effective Date - 1 October 1964

Participation Revised - 1 February 1990

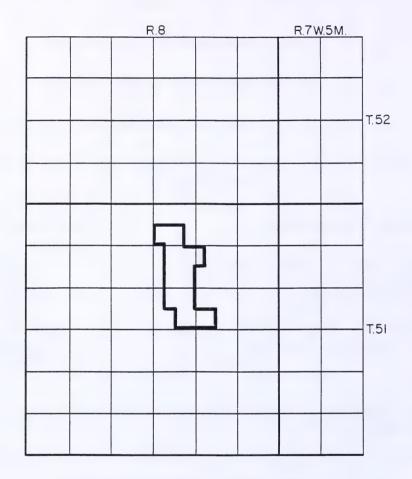
\*Unitized Zone - Ostracod Zone

\*Unitized Substance - Crude oil, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	1.3989
Canadian Occidental Petroleum Ltd.	0.5995
CWCP Resources Inc. Esso Resources Canada	16.4231 0.1998
Felmont Oil & Gas Company	0.1993
Norcen Energy Resources Limited	80.5923
Tap Capital Gas Corporation	0.1998
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



BIGORAY OSTRACOD UNIT NO. I

UNIT OPERATOR - NORCEN ENERGY RESOURCES LIMITED

INITIAL EFFECTIVE DATE - OCTOBER 1, 1964

## BLUE RAPIDS CARDIUM UNIT NO. 1

Located in the Pembina Field

Unit Operator - Esso Resources Canada

Initial Effective Date - 1 September 1968

Participation Revised - 1 December 1989

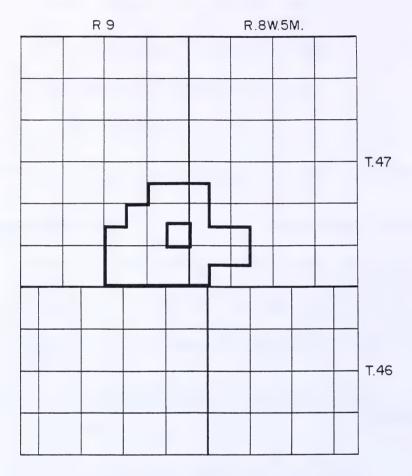
\*Unitized Zone - Cardium Formation

\*Unitized Substance - Crude oil, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Unit Participation
Amoco Canada Resources Ltd.	6.0005
Benedum-Trees Oil Company	3.6448
Comaplex Resources International Ltd.	42.0037
Encor Energy Corporation Inc.	10.9343
Esso Resources Canada	33.7582
Norcen Energy Resources Limited	3.2926
Sunlite Oil Company Limited	0.3659
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



## BLUE RAPIDS CARDIUM UNIT NO. I

INITIAL EFFECTIVE DATE - SEPTEMBER 1,1968

UNIT OPERATOR - ESSO RESOURCES CANADA

## BOUNDARY LAKE SOUTH TRIASSIC E POOL UNIT

Located in the Boundary Lake South Field

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 April 1972

Participation Revised - 1 February 1990

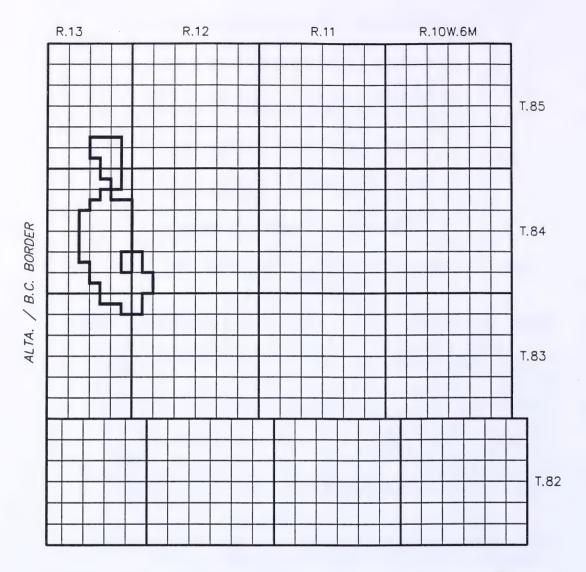
\*Unitized Zone - Triassic Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Black Cat Oil & Gas Ltd. Canadian Roxy Petroleum Ltd. CWCP Resources Inc.	0.310002 0.848673 8.106655
Esso Resources Canada Limited LASMO Canada Inc. Northern Development Company Limited (N.P.L.)	41.247585 44.285957 1.308893
Pembina Resources Limited Sceptre Resources Limited Sterling Capital Group Ltd.	1.377782 1.033337 0.034444
Swade Resources Ltd. Wintershall Oil of Canada Limited	0.063889 1.377783 100.000000

<sup>\*</sup>For a complete definition of the unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



BOUNDARY LAKE SOUTH TRIASSIC E POOL UNIT TERCES
INITIAL EFFECTIVE DATE- 1 APRIL 1972
UNIT OPERATOR-ESSO RESOURCES CANADA LIMITED

## BRAZEAU RIVER GAS UNIT NO. 1

Located in the Brazeau River Field

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 November 1973

Participation Revised - 1 October 1989

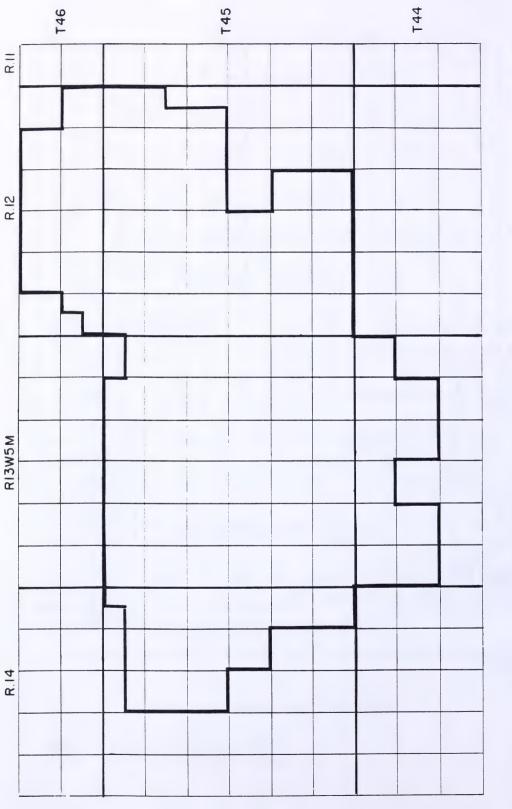
\*Unitized Zone - Turner Valley and Shunda Formations

\*Unitized Substance - Natural Gas

Working Interest Owners	r Cent Participation
Amoco Canada Resources Ltd.	3.98615
Cangild Resources Ltd.	0.09200
Canterra Energy Ltd.	1.54082
Can-Tex Producing Company Ltd.	0.92000
Corexcana Ltd.	0.72618
Discovery West Corp.	0.92000
Esso Resources Canada Limited	21.52755
Gulf Canada Resources Limited	20.26607
Harvard International Resources Ltd.	1.54081
Home Oil Company Limited	2.05444
Mobil Oil Canada	21.52754
New York Oils Limited	0.55200
Pembina Resources Limited	2.91702
Placer CEGO Petroleum, A Division of Placer Dome In	c. 0.92000
Restech Canada Holdings Limited	0.27600
Shell Canada Limited	15.27501
Southland Royalty Company	0.92000
Southmark Acquisitions Canada Ltd.	0.27600
Spruce Hills Production Company, Inc.	0.68080
Total Petroleum (Canada) Ltd.	3.08161
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

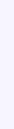




BRAZEAU RIVER GAS UNIT NO.1
INITIAL EFFECTIVE DATE - 1 NOVEMBER 1973

UNIT OPERATOR - ESSO RESOURCES CANADA LIMITED

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## BRAZEAU RIVER NISKU A POOL UNIT

Located in the Brazeau River and Westpem Fields

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 October 1987

Participation Revised - 1 January 1990

\*Unitized Zone - Nisku Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	32.5000
Chevron Canada Resources	17.5000
Norcen Energy Resources Limited	15.7500
Petro-Canada Inc.	32.5000
Prairie Oil Royalties Company, Ltd.	1.7500
	100.0000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

R.13 R.12 W.5M. T.49 T.48

BRAZEAU RIVER NISKU A POOL UNIT
INITIAL EFFECTIVE DATE- 1 OCTOBER 1987
UNIT OPERATOR-PETRO-CANADA INC.



# BRAZEAU RIVER NISKU F POOL UNIT

Located in the Brazeau River Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 September 1985

Participation Revised - 1 January 1990

\*Unitized Zone - Nisku "F"

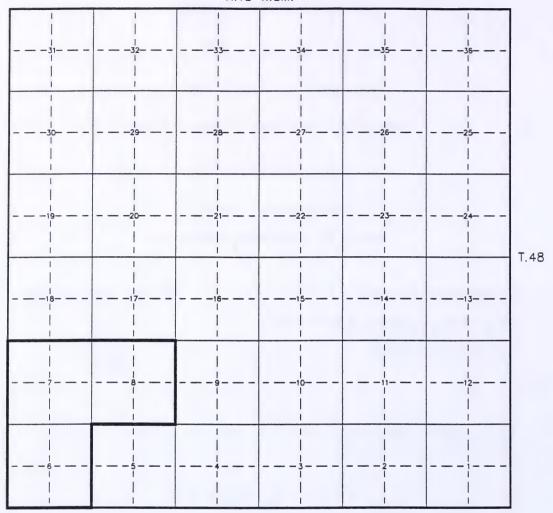
\*Unitized Substance - Natural Gas

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	20.00
Amoco Canada Resources Ltd.	40.00
Esso Resources Canada	20.00
Petro-Canada Inc.	20.00
	100.00

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

R.13 W.5M.



BRAZEAU RIVER NISKU F POOL UNIT INITIAL EFFECTIVE DATE- 1 SEPTEMBER 1985 UNIT OPERATOR-PETRO-CANADA INC.



### BROWNFIELD GAS UNIT

Located in the Provost Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 November 1969

Participation Revised - 1 January 1990

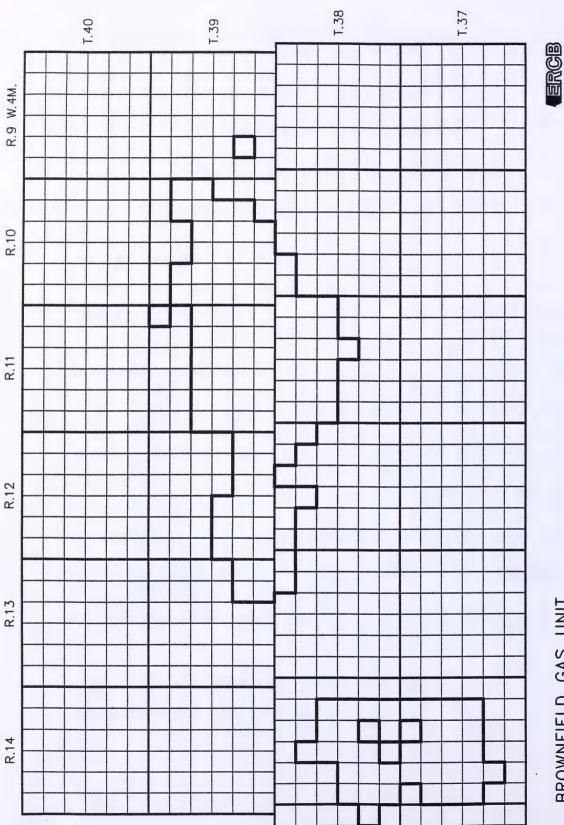
\*Unitized Zone - Viking, Glauconitic and Wainwright

\*Unitized Substance - Natural gas, sulphur, all fluid hydrocarbons other than crude oil

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	88.44402
Anadarko Petroleum of Canada Ltd.	0.11930
Carlyle Energy Ltd.	0.13519
Conwest Exploration Company Limited	0.62000
First Guardian Petroleum Corporation	1.20556
Flint Engineering and Construction, Ltd.	0.41756
KarJan River Ranch Ltd.	0.12662
Lakewood 1986 Development Limited Partnership	1.74756
Oilco Resources Ltd.	1.09919
Pacific Enterprises Oil Company	0.47558
PanCanadian Petroleum Limited	0.39927
Penn West Petroleum Ltd.	0.01176
RTEC One Resources Inc.	0.99406
TCPL Resources Ltd.	0.62000
Tiber Energy Corporation	0.05966
Ulster Petroleums Ltd.	0.18993
Universal Explorations Ltd.	0.95130
Wabiskaw Explorations Ltd.	2.38344
	100.00000

<sup>\*</sup> For a complete definition of unitized zone and substance see Unit Documents

(For Area - See Reverse Side)



# BROWNFIELD GAS UNIT

UNIT OPERATOR - AMOCO CANADA RESOURCES LTD. INITIAL EFFECTIVE DATE - 1 NOVEMBER 1969



## CALGARY BASAL QUARTZ UNIT NO. 1

Located in the Crossfield Field

Unit Operator - Canadian Occidental Petroleum Ltd.

Initial Effective - 1 September 1966

Participation Revised - 1 December 1989

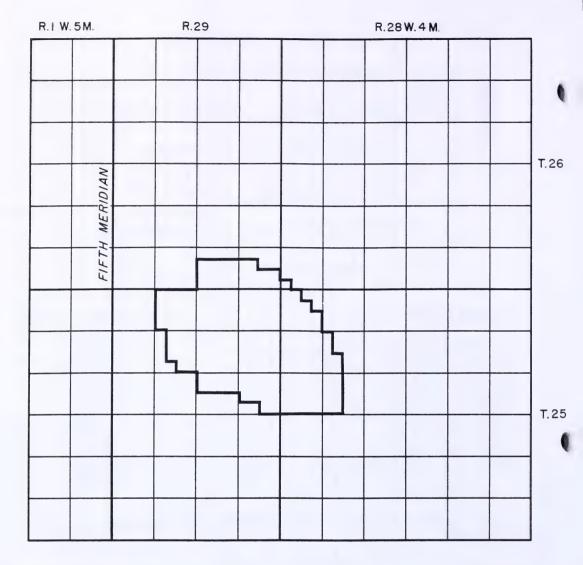
\*Unitized Zone - Basal Quartz Formation

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation		
BP Resources Canada Limited	0.08714		
Canadian Occidental Petroleum Ltd.	38.84188		
Enerplus Resources Corporation	4.44224		
Esso Resources Canada Limited	2.93496		
Mobil Oil Canada	37.73176		
Norcen Energy Resources Limited	0.77277		
Petro-Canada Inc.	13.38983		
Scurry-Rainbow Oil Ltd.	0.96945		
Trek Energy Inc.	0.44359		
Wilshire Oil of Canada, Ltd.	0.38638		
•	100.00000		

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# CALGARY BASAL QUARTZ UNIT NO. I



INITIAL EFFECTIVE DATE - I SEPTEMBER 1966
UNIT OPERATOR - CANADIAN OCCIDENTAL PETROLEUM LTD.

### CALGARY CROSSFIELD UNIT NO. 1

Located in the Crossfield Field

Unit Operator - Canadian Occidental Petroleum Ltd.

Initial Effective Date - 1 December 1961

Participation Revised - 1 January 1990

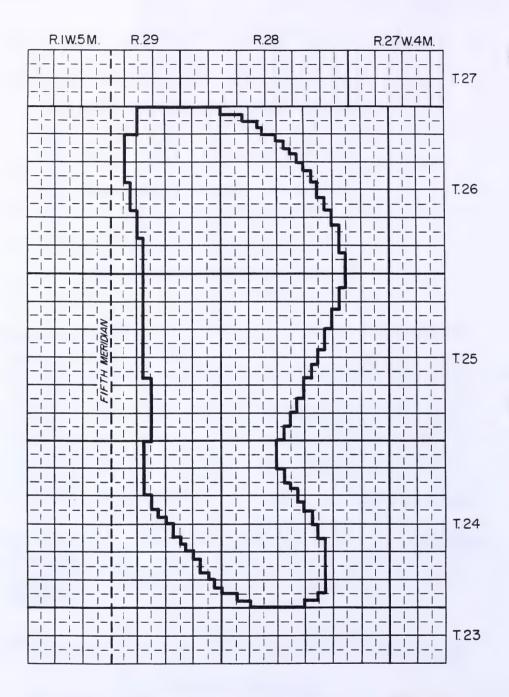
\*Unitized Zone - Crossfield Formation

\*Unitized Substance - Natural gas

### Working Interest Owners Per Cent Participation Barlow Bros. Ltd. 0.0025568 BP Resources Canada Ltd. 2.4220073 Camelot Minerals Ltd. 0.0982282 Canadian Occidental Petroleum Ltd. 37.7826283 Enerplus Resources Corporation 4.4523643 Esso Resources Canada 0.2194921 Esso Resources Canada Limited 1.6332109 Gulf Canada Limited 1.2767785 Home Oil Company Limited 0.5976090 Janval Oil Company 0.4648878 Jethro Development Ltd. 0.0018857 Mobil Oil Canada 37.1283390 3.5851937 Norcen Energy Resources Limited Norpet Oil and Gas Ltd. 0.1886417 6.4897218 Petro-Canada Inc. Petroterra Natural Resources Ltd. 0.3836986 Scurry-Rainbow Oil Limited 2.1884833 Wilshire Oil of Canada, Ltd. 1.0842725 100.0000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



CALGARY CROSSFIELD UNIT NO. I TERCE INITIAL EFFECTIVE DATE - I DECEMBER 1961 UNIT OPERATOR - CANADIAN OCCIDENTAL PETROLEUM LTD.

### CALGARY ELKTON UNIT NO. 1

Located in the Crossfield Field

Unit Operator - Canadian Occidental Petroleum Ltd.

Initial Effective Date - 1 December 1961

Participation Revised - 1 January 1990

\*Unitized Zone - Elkton Formation

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Barlow Development Ltd.	0.4662358
BP Resources Canada Limited	2.4270513
Calgary Western Investment Company Ltd.	0.0367252
Camelot Minerals Ltd.	0.2066155
Canadian Occidental Petroleum Ltd.	24.3667011
City of Calgary	0.0267744
Enerplus Resources Corporation	7.6793503
Esso Resources Canada	0.9795245
Esso Resources Canada Limited	0.7939546
Gulf Canada Resources Limited	2,5281610
Home Oil Company Limited	5.1020386
Husky Oil Operations Ltd.	0.0150208
Jethro Development Ltd.	0.3438484
Mobil Oil Canada	25.0768656
Norcen Energy Resources Limited	5.3001602
Norpet Resources Limited	0.0416611
PanCanadian Petroleum Limited	0.0503373
Petro-Canada Inc.	19.4023448
Scurry-Rainbow Oil Limited	0.6316647
Shell Canada Limited	0.7097412
Unocal Canada Resources	1.4522454
Wilshire Oil of Canada, Ltd.	2.0765663
333916 Alberta Ltd.	0.2359119
000720 10200200 0000	100.0000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

# CALGARY ELKTON UNIT NO.I

ERCB

INITIAL EFFECTIVE DATE - 1 DECEMBER 1961
UNIT OPERATOR - CANADIAN OCCIDENTAL PETROLEUM LTD
SEE UNIT AGREEMENT FOR DETAILS

### CAROLINE CARDIUM B SAND UNIT NO. 1

Located in the Caroline Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 February 1983

Participation Revised - 1 January 1990

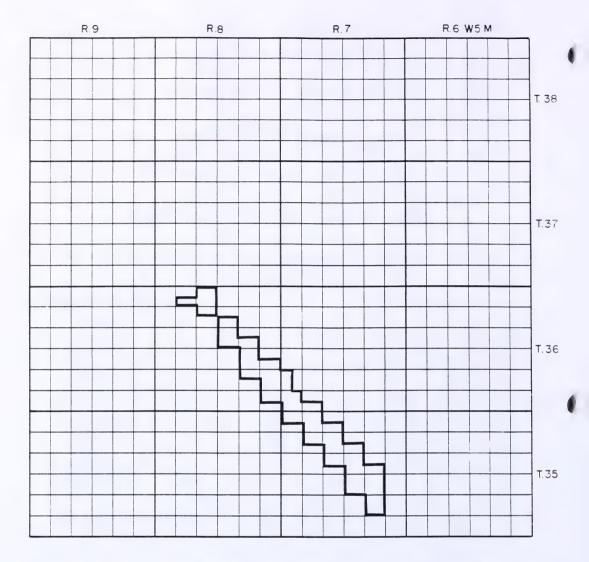
\*Unitized Zone - Cardium "B" Sand Formation

\*Unitized Substances - Petroleum, natural gas, and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
	1 10710/
Amoco Canada Petroleum Company Ltd.	1.107106
Amoco Canada Resources Ltd.	7.568232
Dynex Petroleum Ltd.	0.510674
Gulf Canada Resources Limited	0.241259
Ish Oil Ltd.	0.381976
Mark Resources Inc.	1.527907
Northridge Energy Corp.	0.381977
Petro-Canada Inc.	83.079488
John H. W. Rathwell	0.050000
Safeway Holdings Ltd.	0.050000
Star Oil & Gas Ltd.	5.101381
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# CAROLINE CARDIUM B SAND UNIT NO.1



INITIAL EFFECTIVE DATE - I FEBRUARY 1983 UNIT OPERATOR - PETRO-CANADA INC.

### CARROT CREEK CARDIUM "K" UNIT NO. 1

Located in the Carrot Creek and Cyn-Pem Fields

Unit Operator - Esso Resources Canada

Initial Effective Date - 1 December 1987

Participation Revised - 1 March 1990

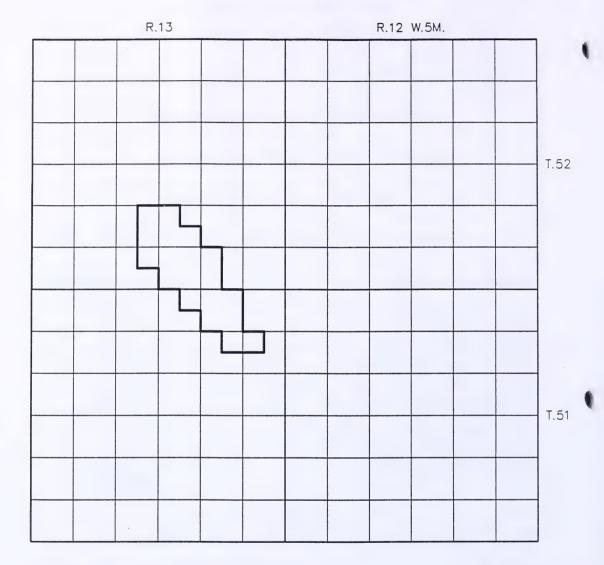
\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

Per Cent Participation
7.2779
7.0078
1.8195
1.4556
5.3901
57.0996
1.8195
1.4246
2.9163
1.9747
4.3777
5.2533
2.1834
100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



CARROT CREEK CARDIUM K UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE- 1 DECEMBER 1987 UNIT OPERATOR-ESSO RESOURCES CANADA

### CARSTAIRS ELKTON UNIT

Located in Carstairs & Crossfield Fields

Unit Operator - Home Oil Company Limited

Initial Effective Date - 1 February 1960

Participation Revised - 1 January 1990

\*Unitized Zone - Elkton Member, Turner Valley Formation

\*Unitized Substance - Crude oil, natural gas, condensate and all other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
American Eagle Petroleums Ltd.	0.96058
Can-Tex Producing Company Ltd.	3.23186
Gulf Canada Resources Limited	1.21669
Harvard International Resources Ltd.	7.87074
Home Oil Company Limited	42.82591
Mobil Oil Canada	28.48063
Murphy Oil Company Limited	3.23186
Shell Canada Limited	2.02810
Southland Royalty Company	3.23186
Texaco Canada Petroleum Inc.	6.60157
405710 Alberta Ltd.	0.32020
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

R.3 R.2 W.5M. T.30 T.29

# CARSTAIRS ELKTON UNIT

ERCB

INITIAL EFFECTIVE DATE- 1 FEBRUARY 1960
UNIT OPERATOR-HOME OIL COMPANY LIMITED

### CHAMPLIN-PERUVIAN PEMBINA CARDIUM UNIT

Located in the Pembina Field

Unit Operator - Union Pacific Resources Inc.

Initial Effective Date - 1 October 1968

Participation Revised - 1 July 1989

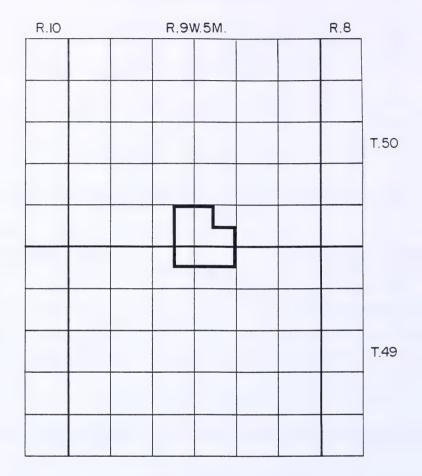
\*Unitized Zone - Cardium Zone

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Pa	Per Cent Participation	
	Interim	Final	
CWCP Resources Inc.	21.69555	36.85249	
Union Pacific Resources Inc.	78.30445	63.14751	
	100.00000	100.00000	

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



CHAMPLIN - PERUVIAN PEMBINA CARDIUM UNIT



INITIAL EFFECTIVE DATE - I OCTOBER 1968

UNIT OPERATOR - UNION PACIFIC RESOURCES INC.

### CHARRON GAS UNIT NO. 1

Located in the Charron Field

Unit Operator - Novalta Resources Inc.

Initial Effective Date - 1 February 1978

Participation Revised - 1 January 1990

\*Unitized Zone - Mannville Zone and Grosmont Zone

\*Unitized Substance - Gas

Working Interest Owners	Per Cent Participation		
Canadian Superior Oil Ltd.	33.4880		
Dorset Exploration Ltd.	3.5557		
Encor Energy Corporation Inc.	2.6078		
Gulf Canada Resources Limited	10.1048		
Inverness Petroleum Ltd.	6.0437		
Novalta Resources Inc.	29.5077		
Sceptre Resources Limited	14.6923		
	100.0000		

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

	R.15 W.4M.	,	R.16	
(				
T.69				
1.03				
T.68				

CHARRON GAS UNIT NO. 1

INITIAL EFFECTIVE DATE- 1 FEBRUARY 1978 UNIT OPERATOR-NOVALTA RESOURCES INC.



### CHIGWELL VIKING B UNIT

Located in the Chigwell Field

Unit Operator - Ladd Exploration Company

Initial Effective Date - 1 November 1978

Participation Revised - 10 March 1990

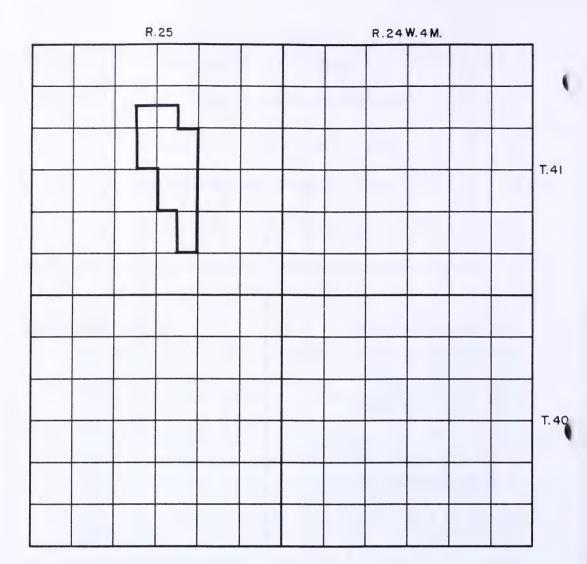
\*Unitized Zone - Viking B Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Canadian Occidental Petroleum Ltd.	2.2048
Dasher Resources Ltd.	3.7611
Esso Resources Canada	18.5552
Fahnestock Viner Holdings Inc.	3.7611
Ladd Exploration Company	15.0447
Megoil Ltd.	1.8085
New York Oils Limited	15.0447
Norwich Resources Canada Ltd.	5.5341
Placer Cego Petroleum A Division of Placer Dome	Inc. 5.5341
Prairie Dog Resources Ltd.	2.4679
Security Pacific Bank Canada	15.0447
202118 Petroleums Ltd.	1.1191
217915 Oil & Gas Ltd.	7.5222
357385 Alberta Ltd.	2.5978
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



CHIGWELL VIKING B UNIT

ERCB

INITIAL EFFECTIVE DATE - 1 NOVEMBER 1978
UNIT OPERATOR - LADD EXPLORATION COMPANY

### CLIVE D-2 UNIT NO. 1

Located in the Clive Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 September 1970

Participation Revised - 1 February 1990

\*Unitized Zone - Nisku Formation

\*Unitized Substance - Gas cap gas, oil and solution gas

Working Interest Owners	Per Cent Participation		
	Oil Interests	Gas Interests	
Acquifund Resources Limited	0.11099	1.31171	
Adeco Drilling and Engineering Co. Ltd.	0.71445	0.52328	
Amoco Canada Petroleum Company Ltd.	23.03974	21.57592	
Amoco Canada Resources Ltd.	3.61371	1.86332	
Bow Valley Industries Ltd.	0.05158	0.37564	
Canadian Occidental Petroleum Ltd.	2.56575	4.92330	
Gulf Canada Frontier Exploration Limited		11.41354	
Gulf Canada Resources Limited	21.44280	20.98325	
J. M. Huber Corporation	1.41080	1.13520	
•	4.92960	0.47885	
Kerr-McGee Corporation Lambda Resources Ltd.	0.00055	0.47883	
	0.00033	0.44521	
Leddy Exploration Limited Charles L. McMahon	0.01603	0.00380	
		0.00380	
R. W. McMahon	0.01302		
Mobil Oil Canada	23.39667	25.89157	
Montclair Oil Ltd.	0.02187	0.01735	
Northern Development Company Limited	0.11232	0 17//0	
Norwest Oil & Gas Corp.	0.23815	0.17442	
PanCanadian Petroleum Limited	0.26360	-	
Pennzoil Petroleums Ltd.	1.09346	0.86778	
Petro-Canada Inc.	2.82887	1.93148	
Petroleum International Inc.	0.01352	0.13503	
Sabre Energy Ltd.	0.05664	1.49683	
Sasko Oil & Gas Limited	0.05158	0.37564	
Sceptre Resources Limited	0.01404	-	

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

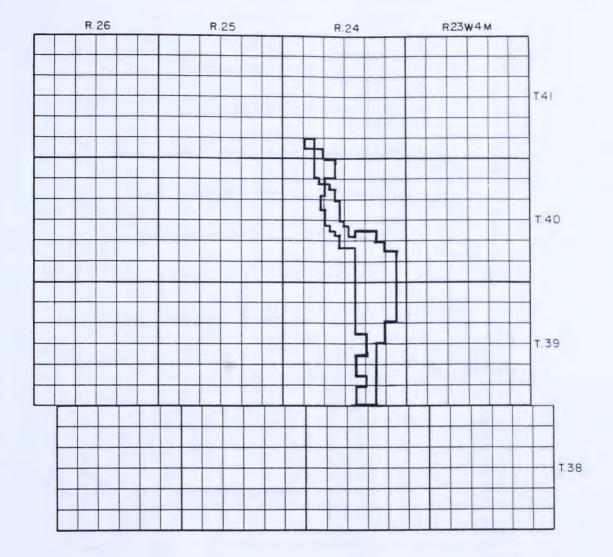
(For Area - See Reverse Side)

Working Interest Owners	Per Cent Participation	
	Oil Interests	Gas Interests
E. J. Schermerhorn	0.01476	0.00891
Southland Royalty Company**	1.88440	0.44850
Star Oil and Gas Ltd.	0.95300	0.24090
R.C. Stratford	0.15308	0.12150
Texas Crude Oil Company	0.01404	-
Westair Resources Ltd.	0.03232	0.28449
Zorayda Oil Co. Ltd.	0.04327	0.85348
Tract 113		
R. W. McMahon	0.02565	0.67791
Petroleum International Inc.	0.05130	1.35583
	100.00000	100.00000

<sup>\*\*</sup>Agent is Meridian Oil Inc.

(For Area - See Reverse Side)

<sup>\*</sup> For a complete definition of unitized zone and substance see Unit Documents



CLIVE D-2 UNIT NO. 1

ERCB

INITIAL EFFECTIVE DATE - I SEPTEMBER 1970
UNIT OPERATOR-GULF CANADA RESOURCES LIMITED



# CLIVE D-3A UNIT NO. 1

Located in the Clive Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 September 1970

Participation Revised - 1 February 1990

\*Unitized Zone - Leduc Formation

\*Unitized Substance - Gas cap gas, oil and solution gas

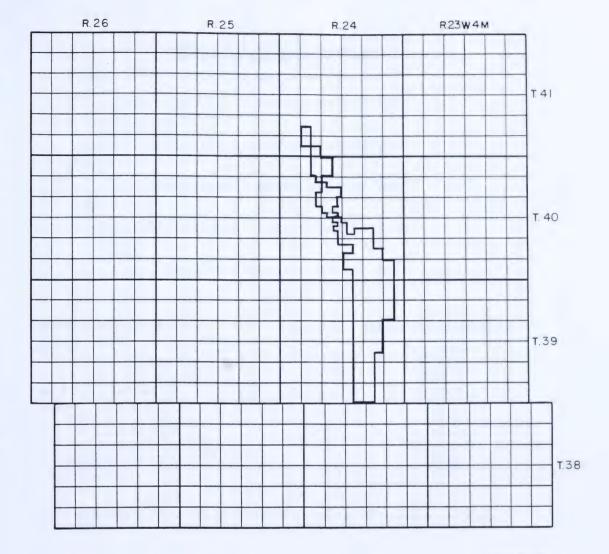
Working Interest Owners	Per Cent Participation	
	Oil Interests	Gas Interests
Acquifund Resources Limited	2.22236	2.08079
Adeco Drilling and Engineering Co. Ltd.	0.56813	-
Amoco Canada Petroleum Company Ltd.	13.02200	21.44857
Amoco Canada Resources Ltd.	3.12345	5.32490
Bow Valley Industries Ltd.	0.86775	0.41285
Canadian Occidental Petroleum Ltd.	4.17855	6.97925
Corvair Oils Ltd.	0.24061	0.11512
Gulf Canada Frontier Exploration Limited	8.14628	7.12407
Gulf Canada Resources Limited	18.30485	18.42655
J. M. Huber Corporation	4.44650	-
Kerr-McGee Corporation	10.31225	0.72910
Lambda Resources Ltd.	0.07841	0.01741
Leddy Exploration Limited	0.26632	0.77043
Charles L. McMahon	0.08217	0.00299
R. W. McMahon	0.21774	0.11833
Mobil Oil Canada	18.50710	20.07547
Montclair Oil Ltd.	0.01244	0.06642
Norcen Energy Resources Limited	0.26158	0.05625
Northern Development Company Limited	0.33344	0.21312
Norwest Oil & Gas Corp.	0.18937	-
PanCanadian Petroleum Limited	1.68730	2.05331
Pennzoil Petroleums Ltd.	1.54830	-
Petro-Canada Inc.	0.62200	3.32137
Petroleum International Inc.	0.27144	0.23069

Working Interest Owners	Per Cent Participation	
	Oil Interests	Gas Interests
Raeson Investments Ltd.	0.08017	0.03837
Sabre Energy Ltd.	0.84371	2.58645
Sasko Oil & Gas Limited	0.69336	0.37535
Sceptre Resources Limited	0.04168	0.02664
E. J. Schermerhorn	0.19306	0.00702
Southland Royalty Company**	3.34480	0.71085
Star Oil & Gas Ltd.	1.63452	0.78261
R.C. Stratford	0.08708	0.46500
Texas Crude Oil Company	0.04168	0.02664
Jack Wahl	0.14533	0.03125
Westair Resources Ltd.	1.50223	0.39731
Zorayda Oil Co. Ltd.	0.73570	1.47132
Tract 113		
R. W. McMahon	0.38211	1.17140
Petroleum International Inc.	0.76423	2.34280
	100.00000	100.00000

<sup>\*\*</sup>Agent is Meridian Oil Ltd.

(For Area - See Reverse Side)

 $<sup>\</sup>ensuremath{\star}$  For a complete definition of unitized zone and substance see Unit Documents



CLIVE D-3A UNIT NO.I



INITIAL EFFECTIVE DATE - I SEPTEMBER 1970
UNIT OPERATOR - GULF CANADA RESOURCES LIMITED



### CORBETT CREEK VIKING GAS UNIT NO. 1

Located in the Corbett Field

Unit Operator - North Canadian Oils Limited

Initial Effective Date - 1 August 1972

Participation Revised - 1 June 1988

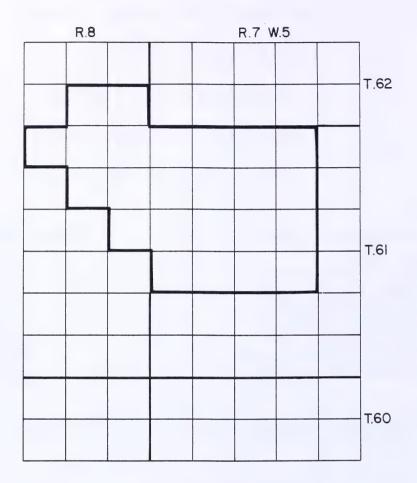
\*Unitized Zone - Lower Viking Formation

\*Unitized Substance - Natural gas

### Working Interest Owners Per Cent Participation Atcor Ltd. 10.30041 Black Cat Oil and Gas Ltd. 10.30041 Calgary Crude Oil Limited 8.90716 14.62881 Dome Petroleum Limited 1.93222 Glenmore Petroleums Ltd. J. M. Huber Corporation 7.18567 Mobil Oil Canada, Ltd. 13.36075 North Canadian Oils Limited 29.19373 Ranchmen's Resources Ltd. 4.19084 100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit



# CORBETT CREEK VIKING GAS UNIT NO.I

INITIAL EFFECTIVE DATE - AUGUST 1,1972

UNIT OPERATOR NORTH CANADIAN OILS LIMITED

Located in the Crossfield Field

Unit Operator - Crescendo Oil & Gas Ltd.

Initial Effective Date - 1 January 1962

Participation Revised - 9 March 1990

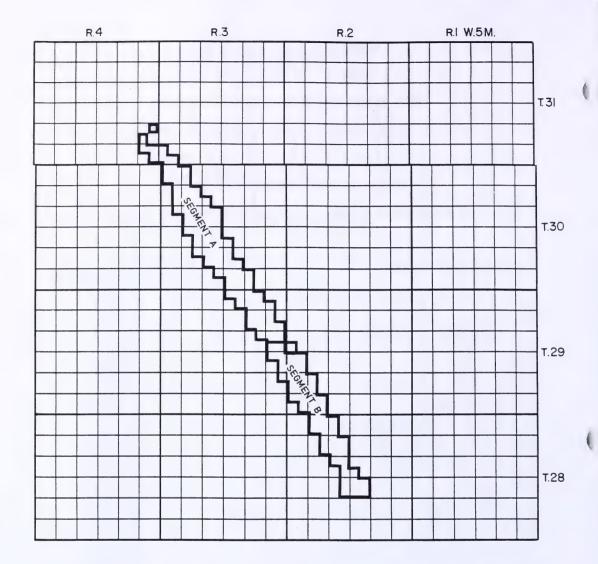
\*Unitized Zone - Lower Cardium Formation

\*Unitized Substance - Crude oil, natural gas, condensate, and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	7.877600
Black Cat Oil & Gas Ltd.	1.235912
Bow Valley Industries Ltd.	7.415676
Canada NorthWest Energy Limited	0.099293
Canadian Occidental Petroleum Ltd.	2.290806
Coleman, Ruth	0.048564
Crescendo Oil & Gas Ltd.	31.891383
Drever, Josephine A.	0.048564
Drever, William A.	0.097127
Dundee-Palliser Resources Inc.	0.558187
Enerplus Resources Corporation	12.416975
Gardiner Oil and Gas Limited	3.834035
Glenex Industries Inc.	0.198579
Home Oil Company Limited	1.016463
James, H. T.	0.531305
L & M Holdings Ltd.	0.039718
Mobil Oil Canada	6.592875
NCE Oil & Gas (88-1) Ltd.	4.807240
New York Oils Limited	1.181286
Norcen Energy Resources Limited	1.856353
Paddon Hughes Development Co. Ltd.	0.095655
Pipawa Exploration Limited	0.949196
Placer CEGO Petroleum (A Division of Placer Dome	Inc.) 5.606957
Ranchmen's Resources Ltd.	0.533221
Scurry-Rainbow Oil Limited	0.872718
Shell Canada Limited	7.734223
Vee Jay Oil Producers Inc.	0.170089
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



ERCB

INITIAL EFFECTIVE DATE - 1 JANUARY 1962 UNIT OPERATOR- CRESCENDO OIL & GAS LTD.

Located in the Crossfield Field

Unit Operator - Crescendo Oil & Gas Ltd.

Initial Effective Date - 1 December 1964

Participation Revised - 9 March 1990

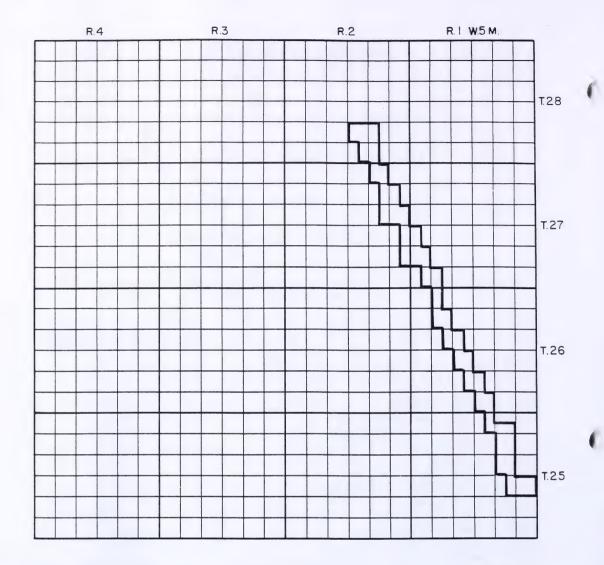
\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas, and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	4.402567
Chauvco Oil & Gas Ltd.	7.575226
Crescendo Oil & Gas Ltd.	48.116966
Esso Resources Canada	6.642811
Esso Resources Canada Limited	8.584691
Gulf Canada Resources Limited	0.821423
Husky Oil Operations	2.656599
Mobil Oil Canada	0.580452
NCE Oil & Gas (88-1) Ltd.	0.580185
Norcen Energy Resources Limited	0.122152
Ranger Oil Limited	2.416064
Scurry-Rainbow Oil Limited	3.136940
Shell Canada Limited	11.050525
Total Petroleum Canada Ltd.	3.116113
Unocal Canada Limited	0.197286
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



ERCB

INITIAL EFFECTIVE DATE - 1 DECEMBER 1964 UNIT OPERATOR-CRESCENDO OIL & GAS LTD.

### CROSSFIELD TURNER VALLEY UNIT NO. 1

Located in the Crossfield Field

Unit Operator - Shell Canada Limited

Initial Effective Date - 27 December 1961

Participation Revised - 1 March 1990

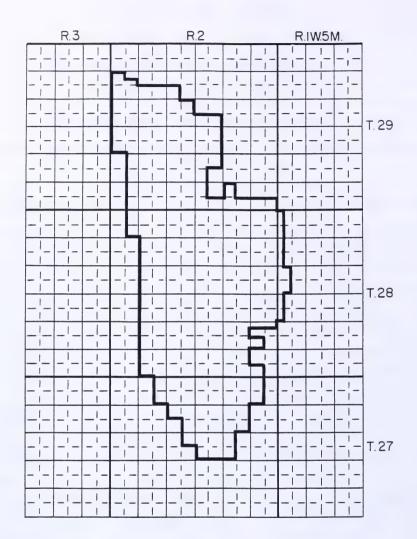
\*Unitized Zone - Turner Valley Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	11.98784500
Amoco Canada Resources Ltd.	0.93238500
Bow Valley Industries Ltd.	1.18893370
BP Resources Canada Limited	1.51535000
James L. Collins	0.34199660
Conwest Petroleum Corporation	0.45430750
Enerplus Resources Corporation	7.67753500
Esso Resources Canada Limited	2,36153000
M. M. Gey	0.22799770
John L. Gilleland	0.34399005
Gulf Canada Resources Limited	4.54925500
Harvard International Resources Ltd.	7.67753500
Home Oil Company Limited	1.84369490
Mobil Oil Canada	8.97256770
Norcen Energy Resources Limited	3.74883750
Martha A. Pafford	0.34399005
Pembina Resources Limited	1.18893370
Petro-Canada Inc.	3.10390000
Placer CEGO Petroleum (A Division of Placer Dome Inc.)	0.12016900
Scurry-Rainbow Oil Ltd.	1.91122500
Shell Canada Limited	31.39560100
Barbara Collins Slater	0.34199670
Suncor Inc.	0.82895000
Texaco Canada Petroleum Inc.	2.58310330
The Paddon Hughes Development Co. Ltd.	0.73143000
Unocal Canada Resources	2.86015000
C. R. Zimmerman	0.22799780
J. E. Zimmerman	0.22799780
405710 Alberta Ltd.	0.31079500
	100.00000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



### CROSSFIELD TURNER VALLEY UNIT NO. I

UNIT OPERATOR - SHELL CANADA LIMITED

### CYN-PEM CARDIUM D UNIT NO. 1

Located in the Cyn-Pem Field

Unit Operator - Esso Resources Canada

Initial Effective Date - 1 November 1986

Participation Revised - 1 March 1990

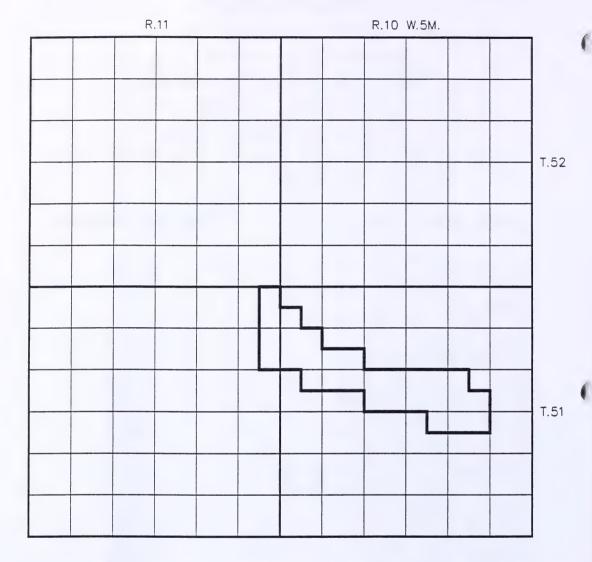
\*Unitized Zone - Cardium Formation

\*Unitized Sustance - Petroleum, natural gas and other hydrocarbons (except coal)

#### Working Interest Owners Per Cent Participation Accipiter Resources Ltd. 0.01472 0.04243 Alveston Holdings Ltd. Amoco Canada Petroleum Company Ltd. 7.24062 Bonanza Oil & Gas Ltd. 1.47199 0.32147 Encor Energy Corporation Inc. Esso Resources Canada 77.42434 Heather Oil Ltd. 0.39792 Inverness Petroleum Ltd. 1.54207 Joli Fou Petroleums Ltd. 0.45709 0.10609 Meeting Creek Resources Ltd. 1.41310 Northern Development Company Ltd. O. M. Sachkiw Holdings Ltd. 0.04458 Olympus Resources Ltd. 0.36590 2.20415 Paragon Petroleum Limited 0.77104 Pencor Petroleum Limited Precambrian Shield Resources Limited 2.32645 0.04416 Redeagle Resources Ltd. 0.04243 Restless Resources Ltd. 0.10287 Simmons Management Limited Starfinder Energy Inc. 0.04243 0.16974 Sylva Resources Ltd. 0.02122 Wares Oil & Gas Ltd. 1.65530 Westcoast Petroleum Ltd. Westmin Resources Limited 1.65530 Wilderness Energy Limited 0.12259 100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



CYN-PEM CARDIUM D UNIT NO.1

INITIAL EFFECTIVE DATE- 1 NOVEMBER 1986 UNIT OPERATOR-ESSO RESOURCES CANADA



### CYNTHIA CARDIUM UNIT NO. 5

Located in the Pembina Field

Unit Operator - Esso Resources Canada

Initial Effective Date - 1 November 1975

Participation Revised - 1 March 1990

\*Unitized Zone - Cardium Formation

\*Unitized Substances - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Pa	Per Cent Participation	
	Interim	Final	
Calgary Crude Oil Limited	24.01625	22.63516	
Canterra Energy Ltd.	12.00812	11.31758	
Chauvco Resources Ltd.	5.81198	5.47776	
Duke Seabridge Limited	6.00406	5.65879	
Esso Resources Canada	51.96751	54.72968	
Summit Resources Limited	0.19208	0.18103	
	100.00000	100,00000	

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

R.12 R.11 W.5M. T.50 T.49

# CYNTHIA CARDIUM UNIT NO.5

ERCB

INITIAL EFFECTIVE DATE- 1 NOVEMBER 1975 UNIT OPERATOR-ESSO RESOURCES CANADA

### CYNTHIA EAST UNIT

Located in the Pembina Field
Unit Operator - Petro Canada Inc.

Initial Effective Date - 1 September 1964

Participation Revised - 1 March 1990

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

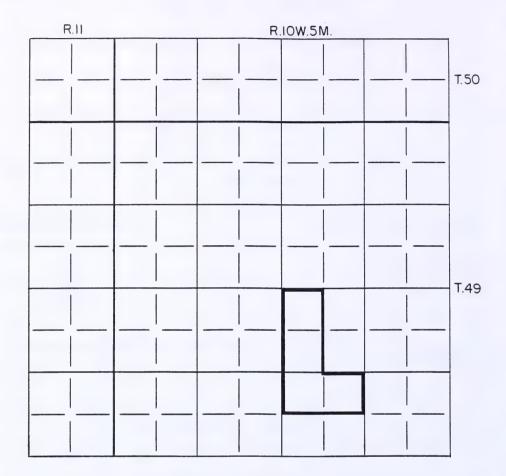
### Working Interest Owners

Per Cent Participation

Dekalb Energy Canada Ltd. Maxx Petroleum Ltd. Shell Canada Limited 40.00 50.00 10.00 100.00

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



### CYNTHIA EAST UNIT

UNIT OPERATOR - PETRO - CANADA INC.

INITIAL EFFECTIVE DATE - SEPTEMBER 1, 1964

#### DONALDA UNIT

Located in the Donalda and Red Willow Fields

Unit Operator - Husky Oil Operations Ltd.

Initial Effective Date - 29 October 1971

Participation Revised - 1 February 1990

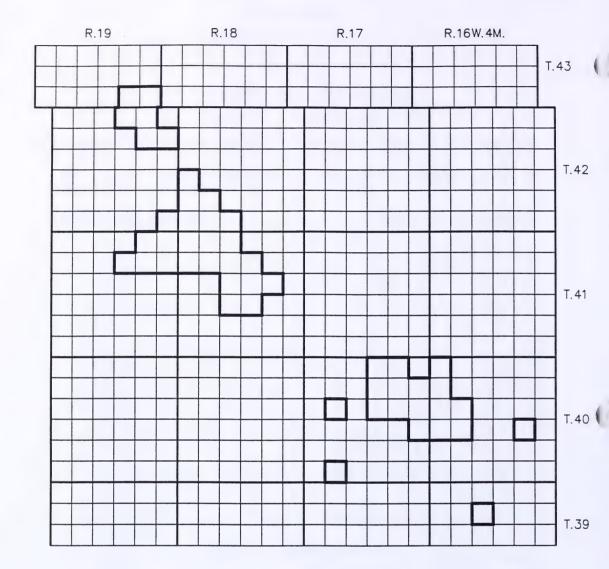
\*Unitized Zone - Viking, Basal Quartz, Glauconite and Detrital Formations

\*Unitized Substance - Natural gas and other hydrocarbons (except crude oil and coal)

#### Working Interest Owners Per Cent Participation Amoco Canada Petroleum Company Ltd. 0.322203 7.689093 Amoco Canada Resources Ltd. Barrington Petroleum Ltd. 0.161101 Bibler Oil & Gas Exploration Ltd. 1.678371 0.720513 Black Cat Oil & Gas Ltd. Coho Resources Limited 0.161101 Colonial Oil & Gas Limited 5.594618 Esso Resources Canada Limited 1.369870 Gardiner Oil and Gas Limited 0.095868 1.678370 Harrington Oil & Gas Exploration Ltd. 55.135203 Husky Oil Operations Ltd. Jethro Development Ltd. 0.620831 6.065054 Mobil Oil Canada, Ltd. 0.063914 New York Oils Limited 6.838989 Norcen Energy Resources Limited North Central Oil Corporation 0.322203 2.123191 North West Exploration Co. Ltd. Novalta Resources Inc. 3.729747 0.136954 Paloma Petroleum Ltd. PanCanadian Petroleum Limited 0.262930 3.818799 Petroterra Natural Resources Ltd. 0.622668 Ranger Oil Limited 0.502026 Tap Capital Gas Corporation 0.190513 Tappit Resources Ltd. 0.063914 Westcoast Petroleum Ltd. 0.031956 319038 Alberta Ltd. 100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



### DONALDA UNIT

ERCB

INITIAL EFFECTIVE DATE- 29 OCTOBER 1971 UNIT OPERATOR-HUSKY OIL OPERATIONS LTD.

### DRUMHELLER BASAL QUARTZ GAS UNIT NO. 1

Located in the Drumheller Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 November 1968

Participation Revised - 1 March 1990

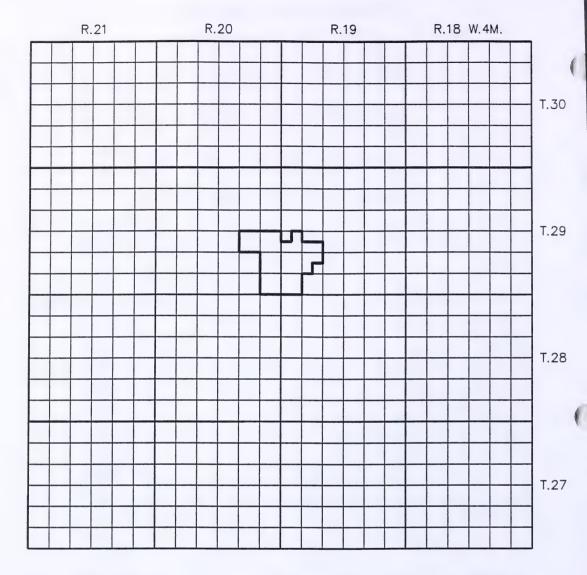
\*Unitized Zone - Basal Quartz Formation

\*Unitized Substance - Natural gas and associated hydrocarbons (except petroleum and coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	70.07990
Atcor Ltd.	5.68742
Norman L. Easley	0.08203
Mobil Oil Canada	11.37482
Norcen Energy Resources Limited	1.43948
Okanagan Petroleums, Ltd.	0.46356
Petro-Canada Inc.	4.43618
Shell Canada Limited	5.68742
Twin Richfield Oils Ltd.	0.28436
Voyager Energy Company	0.19140
Stewart M. Whipple	0.27343
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



DRUMHELLER BASAL QUARTZ GAS UNIT NO.1



INITIAL EFFECTIVE DATE- 1 NOVEMBER 1968 UNIT OPERATOR-AMOCO CANADA RESOURCES LTD.

### DUNVEGAN GAS UNIT NO. 1

Located in the Dunvegan Field

Unit Operator - Anderson Exploration Ltd.

Initial Effective Date - 1 August 1973

Participation Revised - 1 January 1990

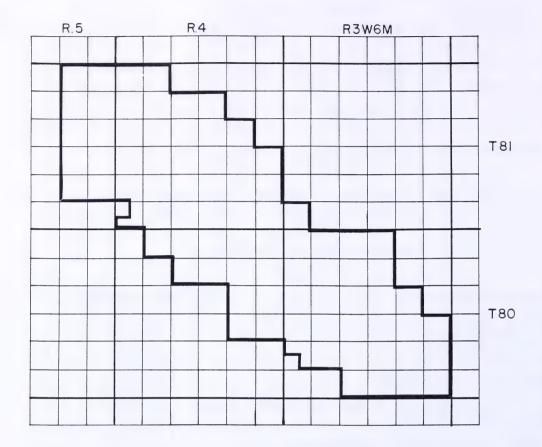
\*Unitized Zone - Paddy, Cadotte, Notikewin, Bluesky-Bullhead, Upper Debolt, Middle Debolt, and Lower Debolt

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Amerada Minerals Corporation of Canada Ltd.	4.06579
Amoco Canada Resources Ltd.	0.09307
Anderson Exploration Ltd.	47.49352
Ardee Resources Ltd.	0.55263
Barnwell of Canada, Limited	13.53471
Bow Valley Industries Ltd.	0.09307
The British Columbia Sugar Refining Company, Limit	ted 0.99994
Central Explorers Inc.	1.66127
Colonial Oil & Gas Ltd.	6.43968
Columbia Gas Development of Canada Ltd.	0.58537
Corvair Oils Ltd.	2.38941
Cumulus Investments Ltd.	0.69999
Paloma Petroleum Ltd.	4.29314
Pengrowth Gas Corporation	3.02770
Ranger Oil Limited	0.97203
Total Petroleum (North America) Ltd.	0.93391
Unocal Canada Resources	5.36268
W. F. Brown Exploration Ltd.	3.21985
Yeti Contractors Ltd.	0.50133
119307 Exploration Ltd.	2.57958
389592 Alberta Ltd.	0.50133
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



## DUNVEGAN GAS UNIT NO. I

ERCB

INITIAL EFFECTIVE DATE - I AUGUST 1973
UNIT OPERATOR - ANDERSON EXPLORATION LTD.

#### EAST SWAN HILLS UNIT

Located in the Swan Hills Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 June 1967

Participation Revised - 1 January 1990

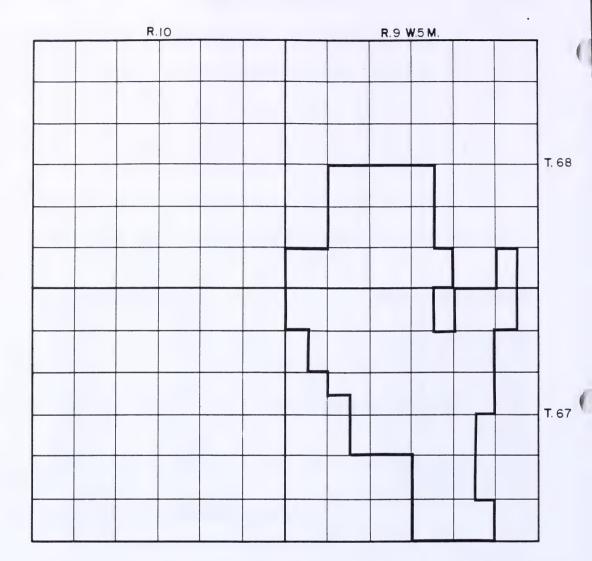
\*Unitized Zone - Swan Hills Member

\*Unitized Substance - Crude oil, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Pa	rticipation
	Initial	Final
Amoco Canada Resources Ltd.	0.81414	0.66133
BHP Petroleum (Canada) Inc.	0.44877	1.08890
Comaplex Resources International Ltd.	-	2.67778
CWCP Resources Inc.	0.97697	1.03802
Esso Resources Canada	5.25416	8.29143
Harvard International Resources Ltd.	1.95393	1.06214
Eugene F. Hochhausen	1.95393	1.06215
Indra Oil and Gas Ltd.	0.48848	0.39680
Norpet Oil & Gas Ltd.	3.90786	2.67778
Numac Oil & Gas Limited	0.97696	1.03802
Petro-Canada Inc.	43.97263	42.21186
158437 Canada Ltd.		
c/o Esso Resources Canada Limited	39.25217	37.79379
	100.00000	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



### EAST SWAN HILLS UNIT

ERCB

INITIAL EFFECTIVE DATE- I JUNE 1967 UNIT OPERATOR- PETRO-CANADA INC.

#### ELNORA GAS UNIT

Located in the Elnora, Mikwan and Trochu Fields

Unit Operator - Kerr-McGee Canada Ltd.

Initial Effective Date - 1 September 1973

Participation Revised - 1 January 1990

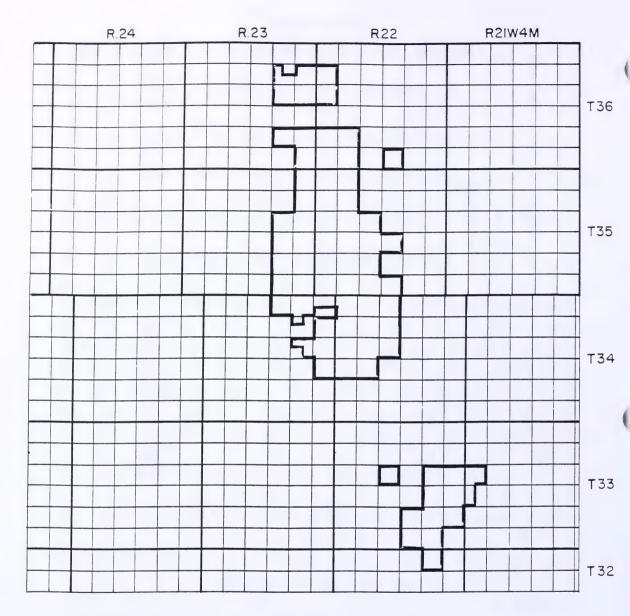
\*Unitized Zone - Belly River, Glauconite and Basal Quartz Formations

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	1.3110
Chevron Canada Resources Limited	0.1831
Davilin Energy Corporation	0.2711
Gardiner Oil and Gas Limited	0.8528
Home Oil Company Ltd.	0.3309
J. M. Huber Corporation	4.6507
Kerr-McGee Canada Ltd.	70.7421
Norwich Resources Canada Ltd.	0.3281
Opinac Exploration	0.3282
PanCanadian Petroleum Ltd.	20.6738
Sceptre Resources Limited	0.3282
•	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



ELNORA GAS UNIT

INITIAL EFFECTIVE DATE - SEPTEMBER 1,1973

UNIT OPERATOR - KERR-MCGEE CANADA LTD.

### ENCHANT GAS UNIT

Located in the Enchant Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 15 August 1974

Participation Revised - 1 January 1990

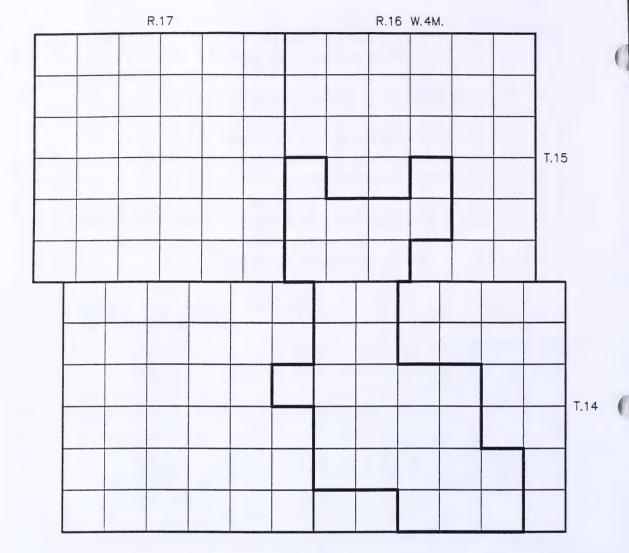
\*Unitized Zone - Bow Island, Basal Colorado, and Glauconite Formation

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	63.69818
Anadarko Petroleum of Canada Ltd.	5.49129
Bibler Oil & Gas Exploration Ltd.	0.08597
Canpar Holdings Ltd.	16.80524
Corvair Oils Ltd.	0.83368
Harrington Oil & Gas Exploration Ltd.	0.08597
Mobil Oil Canada	1.80559
B. William Payne & Associates	0.81436
Petro-Canada Inc.	7.87448
Reunion 56 Oil & Gas Inc.	1.25473
Solar Energy Resources Ltd.	1.25051
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# ENCHANT GAS UNIT

ERCB

INITIAL EFFECTIVE DATE- 15 AUGUST 1974
UNIT OPERATOR-AMOCO CANADA RESOURCES LTD.

### ERSKINE GAS UNIT NO. 1

Located in the Erskine Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 July 1965

Participation Revised - 1 December 1989

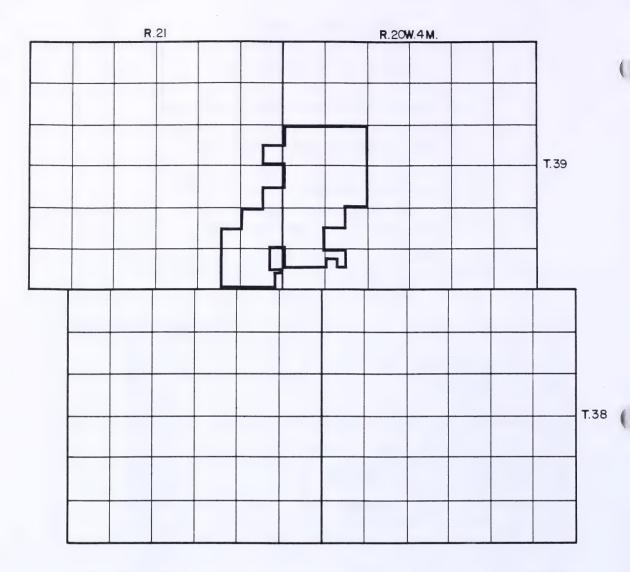
\*Unitized Zone - Basal Blairmore

\*Unitized Substance - Natural gas and other hydrocarbons (except crude oil and coal)

Working Interest Owners	Per Cent Participation
Alba Petroleum Corporation	6.04555
Amoco Canada Resources Ltd.	2.24499
Blair Oil Company	1.64895
Denton Energy Ltd.	0.18322
Enerplus Resources Corporation	0.91341
Esprit Resources Ltd.	0.41281
Esso Resources Canada	5.24072
First Canada Financial Corporation Limited	0.09644
Gulf Canada Resources Limited	38.12635
Harvard International Resources Ltd.	0.91342
Home Oil Company Limited	19.22739
Inter-Rock Oil Company of Canada	0.42408
Inuvialuit Petroleum Corporation	0.06714
Luscar Ltd.	0.21976
McColl-Frontenac Inc.	0.50653
Minaki Minerals Ltd.	1.10376
Norcen Energy Resources Limited	12.33999
Scurry-Rainbow Oil Limited	3.67381
Sharata Resources Limited	0.06429
Total Petroleum Canada Ltd.	3.69608
United Reef Petroleum Limited	0.10454
400016 Alberta Ltd.	2.74677
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



ERSKINE GAS UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE- I JULY 1965 UNIT OPERATOR- GULF CANADA RESOURCES LIMITED

### ERSKINE LEDUC D-3A UNIT NO. 1

Located in the Erskine Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 January 1985

Participation Revised - 1 December 1989

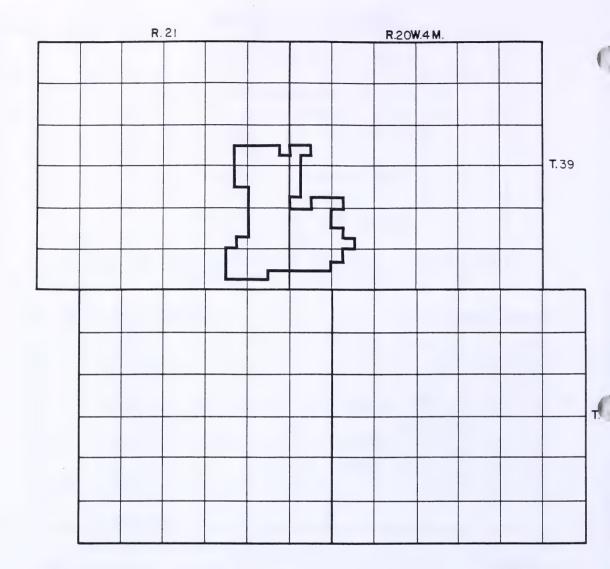
\*Unitized Zone - Leduc Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	0.09060
Blair Oil Company Denton Energy Ltd.	0.08607 0.00453
Esso Resources Canada	2.12530
Esso Resources Canada Limited	1.96844
Gulf Canada Resources Limited	54.88972
Home Oil Company Limited Inter-Rock Oil Co. of Canada	21.73386 0.76118
McColl-Frontenac Inc.	2.54379
Norcen Energy Resources Limited Ranger Oil Limited	8.06767 4.62400
400016 Alberta Ltd.	3.10484
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



ERSKINE LEDUC D-3A UNIT NO!

INITIAL EFFECTIVE DATE - I JANUARY 1985
UNIT OPERATOR- GULF CANADA RESOURCES LIMITED



### FLAT LAKE GAS UNIT

Located in the Flat Lake Field

Unit Operator - Novalta Resources Inc.

Initial Effective Date - 1 March 1971

Participation Revised - 1 January 1990

\*Unitized Zone - Wabamun, Wabiskaw and Colony Formations

\*Unitized substance - Gas

Working Interest Owners	Per Cent Participation
Canadian Superior Oil Ltd.	12.5719
Esso Resources Canada Limited Harvard International Resources Ltd.	39.4353 23.2431
Novalta Resources Inc.	23.2431
Oakfern Petroleums Ltd.	0.0826
Westcoast Petroleum Ltd.	1.4240
	100.0000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

R.20 R.19 W.4M. T.66 T.65

## FLAT LAKE GAS UNIT

INITIAL EFFECTIVE DATE— 1 MARCH 1971
UNIT OPERATOR—NOVALTA RESOURCES INC.



### GARRINGTON CARDIUM UNIT NO. 3

Located in the Garrington Field
Unit Operator - Pennzoil Petroleums Ltd.

Initial Effective Date - 1 October 1964

Participation Revised - 26 March 1990

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

#### Working Interest Owners

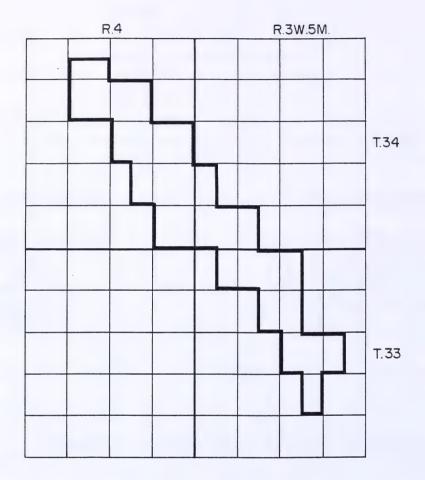
### Per Cent Participation

Amoco Canada Resources Ltd. Barcelona Operating Company Esso Resources Canada Ltd. Pennzoil Petroleums Ltd. Sceptre Resources Limited Total Petroleum Canada Ltd.

12.493285 8.834064 5.440503 61.838452 10.019050 1.374646 100.0000000

\*For a complete definition of unitized zones and substances see Unit Documents.

(For Area - See Reverse Side)



### GARRINGTON CARDIUM UNIT NO.3

INITIAL EFFECTIVE DATE - OCTOBER 1, 1964

UNIT OPERATOR - PENNZOIL PETROLEUMS LTD

### GARRINGTON ELKTON GAS UNIT NO. 1

Located in the Caroline, Garrington and Harmattan East Fields

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 August 1968

Participation Revised - 1 March 1989

\*Unitized Zone - Elkton Formation

\*Unitized Substance - Natural gas

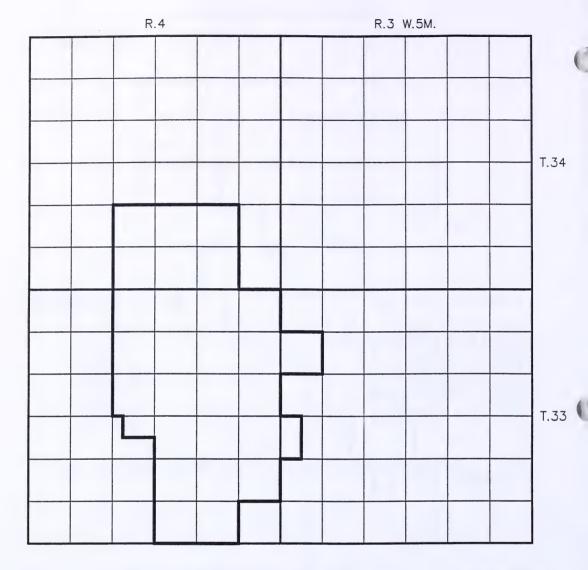
### Working Interest Owners

Amoco Canada Resources Ltd. Bass & Sons Resources, Ltd. Corvair Oils Ltd. DEKALB Energy Canada Ltd. Mobil Oil Canada Raeson Investments Ltd. Star Oil & Gas Ltd.

### Per Cent Participation

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



GARRINGTON ELKTON GAS UNIT NO.1



INITIAL EFFECTIVE DATE- 1 AUGUST 1968
UNIT OPERATOR-AMOCO CANADA RESOURCES LTD.

#### GHOST RIVER GAS UNIT

Located in the Salter Field
Unit Operator - Phillips Petroleum Resources, Ltd.

Initial Effective Date - 1 June 1981

Participation Revised - 29 December 1989

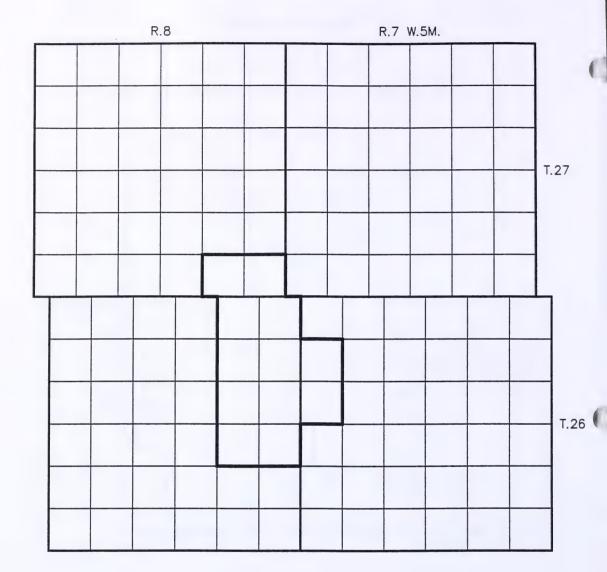
\*Unitized Zone - Rundle Zone

\*Unitized Substance - Gas

Working Interest Owners	Per Cent Participation
Encor Energy Corporation Inc.	1.43144
Gulf Canada Resources Limited	4.29432
PanCanadian Petroleum Limited	9.96873
Phillips Petroleum Resources, Ltd.	73.46524
Shell Canada Limited	9.73652
Venwest Resources Limited	1.10375
	100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents.



# GHOST RIVER GAS UNIT



INITIAL EFFECTIVE DATE- 1 JUNE 1981
UNIT OPERATOR-PHILLIPS PETROLEUM RESOURCES, LTD.

### GILBY BASAL MANNVILLE B UNIT NO. 1

Located in the Gilby Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 March 1969

Participation Revised - 1 January 1990

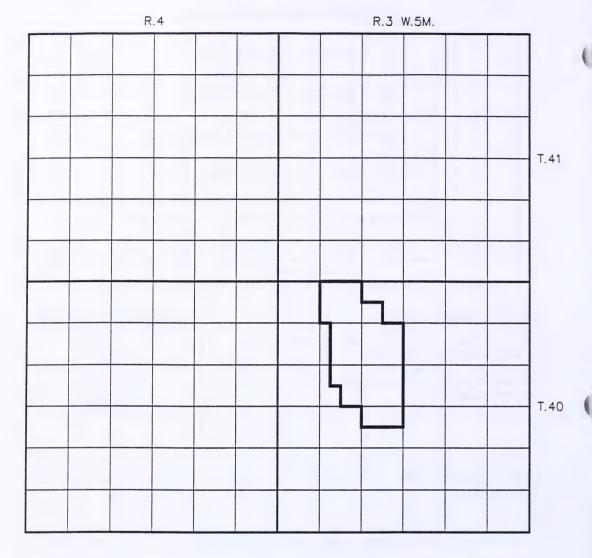
\*Unitized Zone - Basal Mannville B Sand Zone

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation	
Amoco Canada Petroleum Company Ltd.	11.54000	
Esso Resources (1989) Ltd.	11.54000	
Gulf Canada Corporation	2.39000	
PanCanadian Petroleum Limited	27.99000	
Petro-Canada Inc.	46.54000	
	100.00000	

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



GILBY BASAL MANNVILLE B UNIT NO.1



INITIAL EFFECTIVE DATE- 1 MARCH 1969 UNIT OPERATOR-PETRO-CANADA INC.

### GILBY JURASSIC B UNIT NO. 1

Located in the Gilby Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 October 1965

Participation Revised - 1 January 1990

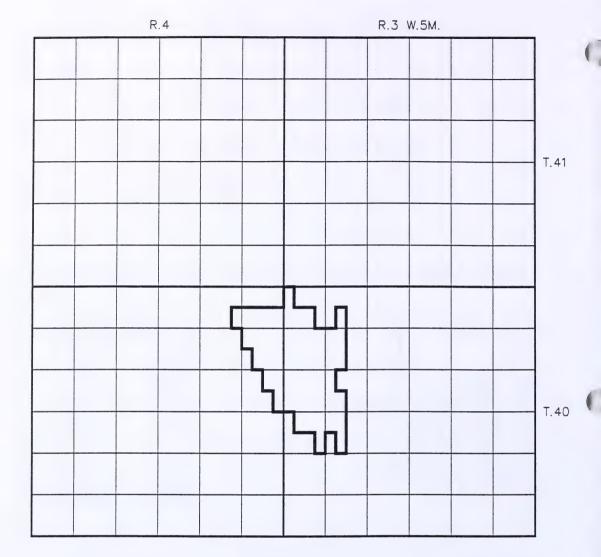
\*Unitized Zone - Jurassic B Sand

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Parti	
	Interim %	Final %
Amoco Canada Resources Ltd. Blair Oil Company	3.4886 3.4886	2.6931 2.5369
Canadian Occidental Petroleum Ltd. CWCP Resources Inc.	66.3923	5.5405 53.6915
Denison Mines Limited Mr. F. G. Gannon	2.7571	4.8419 0.1562
Gulf Canada Corporation Kerr-McGee Canada Ltd.	9.5509 1.9153	8.0472 2.0615
Petro-Canada Inc.	$\frac{12.4072}{100.0000}$	$\frac{20.4312}{100.0000}$

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



GILBY JURASSIC B UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE- 1 OCTOBER 1965 UNIT OPERATOR-PETRO-CANADA INC.

# GILBY LOWER MANNVILLE OSTRACOD UNIT NO. 1

Located in the Gilby Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 25 October 1972

Participation Revised - 1 January 1990

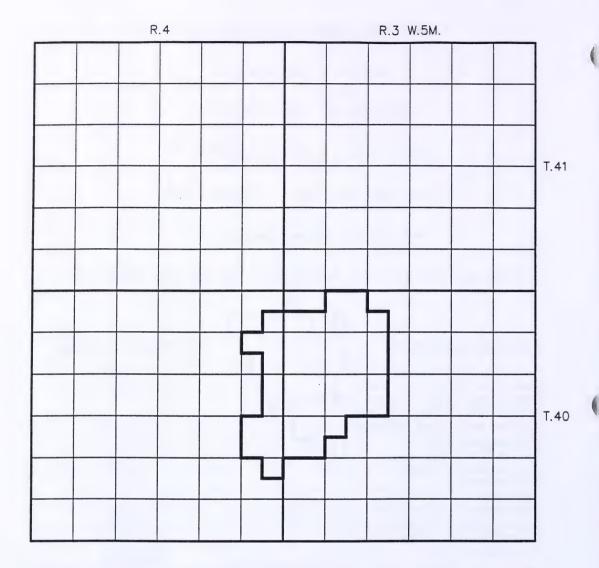
\*Unitized Zone - Lower Mannville Ostracod

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
not national and a second	Tel dent lateletpation
Amoco Canada Petroleum Company Ltd.	0.97333
Amoco Canada Resources Ltd.	0.04999
Edwin Foster Blair (carrying on business	0.04499
as Blair Oil Company)	
Canadian Occidental Petroleum Ltd.	3.34553
CWCP Resources Inc.	40.34753
Denison Mines Limited	0.80832
Esso Resources Canada	0.97333
F. G. Gannon	0.00499
Gulf Canada Corporation	5.10240
Lincoln-McKay Development Company Ltd.	2.58641
New York Oils Limited	1.03557
PanCanadian Petroleum Limited	10.46915
Petro-Canada Inc.	34.25796
	100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



GILBY LOWER MANNVILLE OSTRACOD UNIT NO.1 TERCE INITIAL EFFECTIVE DATE- 25 OCTOBER 1972 UNIT OPERATOR- PETRO-CANADA INC.

### GLEICHEN UNIT NO. 1

Located in the Gleichen Field

Unit Operator - PanCanadian Petroleum Limited

Initial Efffective Date - 1 January 1986

Participation Revised - 1 February 1990

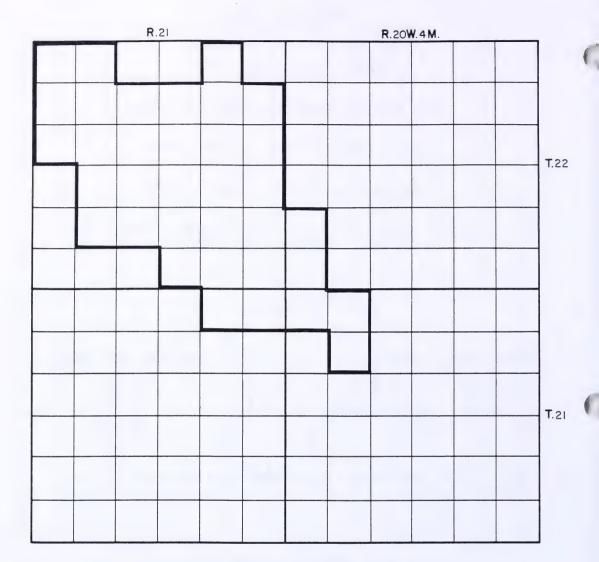
\*Unitized Zone - Viking Formation and all geological formations down to the base of the Medicine Hat Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
American Eagle Petroleums Ltd.	10.2381
Northern Reef Exploration Ltd.	26.6667
PanCanadian Petroleum Limited	50.9523
Star Oil & Gas Ltd.	12.1429
	100.0000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# GLEICHEN UNIT NO.I



INITIAL EFFECTIVE DATE - | JANUARY, 1986
UNIT OPERATOR - PANCANADIAN PETROLEUM LIMITED

### GREENCOURT GAS UNIT NO. 1

Located in the Greencourt Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 May 1971

Participation Revised - 1 January 1990

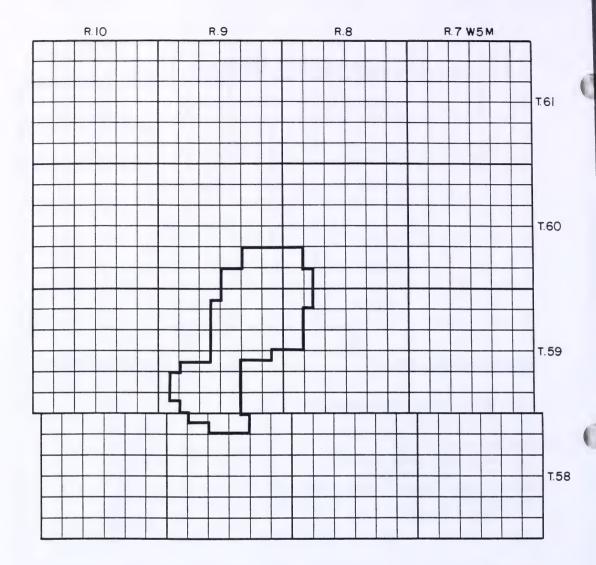
\*Unitized Zone - Jurassic and Pekisko

\*Unitized Substance - Natural Gas

Working Interest Owners	Per Cent Participation	
Amoco Canada Petroleum Company Ltd.	1.214	
Amoco Canada Resources Ltd.	28.136	
Canadian Occidental Petroleum Ltd.	15.502	
Esso Resources Canada	1.214	
Esso Resources Canada Limited	17.775	
Home Oil Company Limited	2.394	
Northern Development Company Limited	9.379	
Petro-Canada Inc.	18.807	
Total Petroleum Canada Ltd.	5.579	
	100.000	

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents.



# GREENCOURT GAS UNIT NO. I

INITIAL EFFECTIVE DATE-I MAY 1971 UNIT OPERATOR- PETRO-CANADA INC.



### HANLAN SWAN HILLS POOL GAS UNIT NO. 1

Located in the Hanlan Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 July 1988

Participation Revised - 1 March 1990

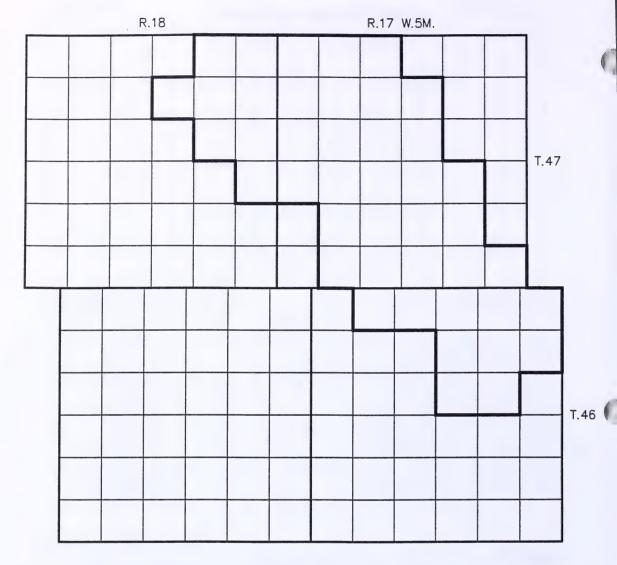
\*Unitized Zone - Swan Hills Member

\*Unitized Substance - Natural gas and associated substances

Working Interest Owners	Per Cent Participation
Amerada Minerals Corporation of Canada Ltd. American Eagle Petroleums Ltd. Amoco Canada Resources Ltd. Columbia Gas Development of Canada Ltd. Conwest Exploration Company Limited Dena Resources Ltd.	4.474000 1.085500 0.173200 0.111900 0.135900 0.002500
Gulf Canada Resources Limited	24.927000
Hamilton Brothers Canadian Gas Company Ltd. Home Oil Company Limited PanCanadian Petroleum Limited Petro-Canada Inc. Union Pacific Resources Inc.	5.312000 1.800000 2.785000 53.881000 5.312000 100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



HANLAN SWAN HILLS POOL GAS UNIT NO.1



INITIAL EFFECTIVE DATE- 1 JULY 1988 UNIT OPERATOR-GULF CANADA RESOURCES LIMITED

### HARMATTAN EAST UNIT NO. 1

Located in the Harmattan East Field

Unit Operator - Shell Canada Limited

Initial Effective Date - 1 September 1962

Participation Revised - 1 March 1990

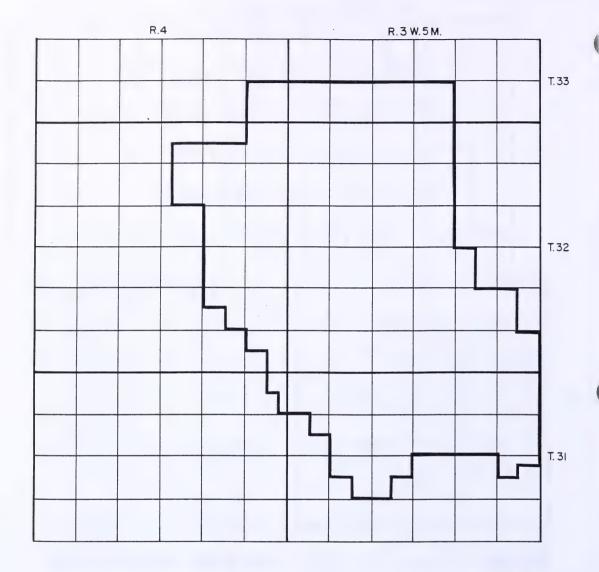
\*Unitized Zone - Turner Valley Formation

Unitized Substance - Oil, solution gas, gas cap gas, and condensate

Working Interest Owners	Per Cent Participation	
	Oil Interests	Gas Interests
Amoco Canada Resources Ltd.	0.7437288	0.8344213
BP Resources Canada Limited	1.0180045	0.1435995
Canadian Occidental Petroleum Ltd.	/2 201220/	0.1833450
Canadian Superior Oil Ltd.	43.3213326	44.1266963
Comaplex Resources International Ltd.	0.2296957	0.0134352
Conwest Petroleum Corporation		0.0183380
Enerplus Resources Corporation	1.7001413	0.1041375
Esso Resources Canada		0.1833450
Faraday Resources Inc.		0.0733520
Gulf Canada Resources Limited	0.6802812	1.6344267
Harvard International Resources Ltd.	0.5667137	0.0347125
Home Oil Company Limited	1.1334275	1.1467265
Montreal Trust Company,		
Estate of Raymond R. Dial	0.2029050	
Norcen Energy Resources Limited	4.5435995	16.1077741
Northern Development Company Limited	0.6110655	0.0285502
Pembina Resources Limited		0.0041947
Petro-Canada Inc.	1.1285300	0.8611400
Shell Canada Limited	41.8956900	34.1952950
Suncor Inc.	0.5566400	0.0283700
Total Petroleum Canada Ltd.	1.0145250	
Zeus Oils and Holdings Ltd.	0.4053100	
398603 Alberta Ltd.	0.2479097	0.2781405
0,000	100.0000000	100.0000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# HARMATTAN EAST UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE - I SEPTEMBER 1962 UNIT OPERATOR - SHELL CANADA LIMITED

### HOLMBERG MANNVILLE GAS UNIT

Located in the Bruce, Holmberg, and Strome Fields

Unit Operator - Sceptre Resources Limited

Initial Effective Date - 1 June 1973

Participation Revised - 1 July 1989

\*Unitized Zone - Mannville Formation

\*Unitized Substance - Gas

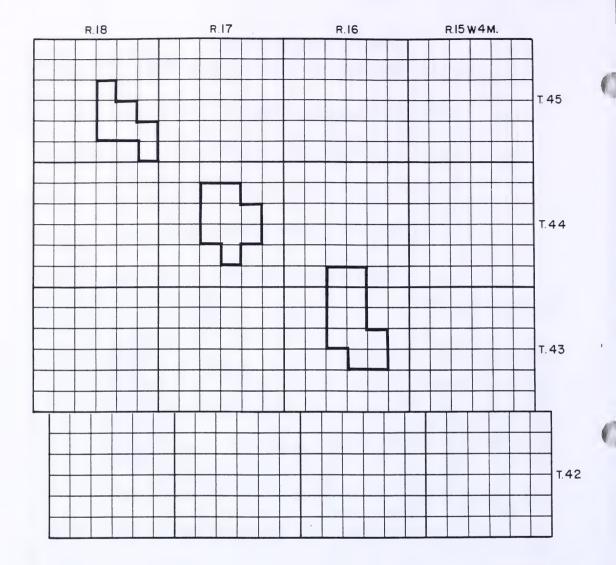
### Working Interest Owners Per Cent Participation Amoco Canada Resources Limited 11.902101 Canadian Natural Resources Limited 1.928337 Central Explorers Inc. 1.043766 Esso Resources Canada Limited 0.430179 Gardiner Oil & Gas Limited 2.605065 ICG Resources Ltd. 7.288044 Kline Oil Company Ltd. 28.225970 Sceptre Resources Limited 41.242571 Star Oil & Gas Ltd. 5.333967

\*For a complete definition of unitized zones and substances see Unit Documents.

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD Calgary, Alberta

100.000000



# HOLMBERG MANNVILLE GAS UNIT

ERCB

INITIAL EFFECTIVE DATE - I JUNE 1973
UNIT OPERATOR - SCEPTRE RESOURCES LIMITED

# HUGHENDEN BASAL QUARTZ NORTH NO. 1 UNIT

Located in the Provost Field

Unit Operator - Renaissance Energy Ltd.

Initial Effective Date - 1 June 1963

Participation Revised - 30 November 1984

\*Unitized Zone - Basal Quartz Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners

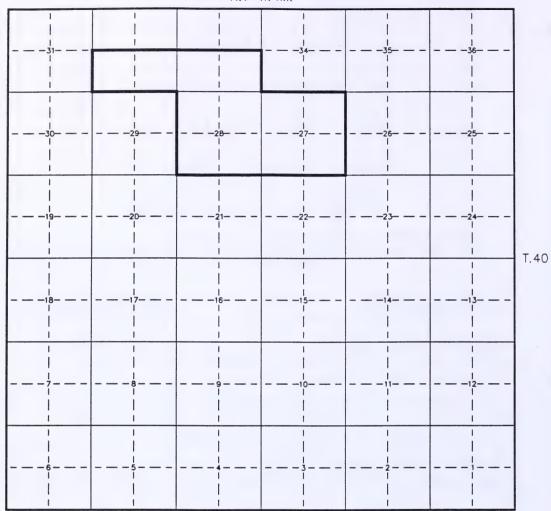
Per Cent Participation

Renaissance Energy Ltd.

100.00

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents.



HUGHENDEN BASAL QUARTZ NORTH NO.1 UNIT TERCE
INITIAL EFFECTIVE DATE- 1 JUNE 1963
UNIT OPERATOR-RENAISSANCE ENERGY LTD.

### HUXLEY GAS UNIT NO. 1

Located in the Huxley Field

Unit Operator - Sceptre Resources Limited

Initial Effective Date - 1 June 1972

Participation Revised - 1 February 1990

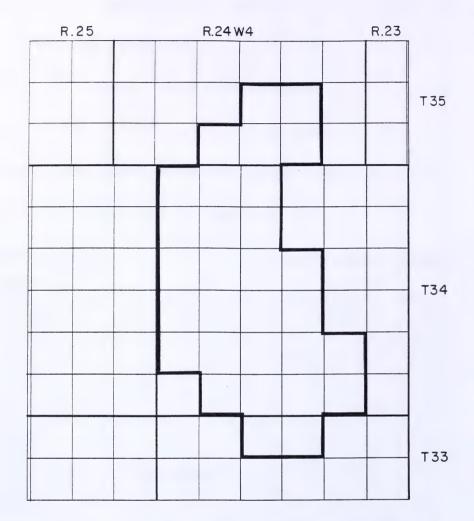
\*Unitized Zone - Viking, Glauconite and Basal Quartz Formations

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Atlantis Resources Ltd.	9.388457
Canadian Natural Resources Limited	5.659789
Comaplex Resources International Ltd.	5.675405
Copetrex Oil & Gas Co. Ltd.	2.837703
Corexcal, Inc.	1.313157
Dorset Energy Corporation	2.270162
Husky Oil Operations Ltd.	5.433497
Kerr McGee Corporation	0.713542
Martin, Antia M.	1.135082
McFeely, Marian E.	1.135082
McFeely, Michael B.	1.702624
Mobil Oil Canada, Ltd.	3.716093
NCE Oil & Gas (86-1) Ltd.	2.270162
Noramco Mining Corporation	0.572138
Pacific Enterprises Oil Company (Netherlands)	2.626319
PanCanadian Petroleum Limited	16.902579
Petrorep (Canada) Ltd.	3.939480
Reco Management Enterprises Ltd.	2.270162
Sceptre Resources Limited	18.321178
Sunlite Oil Company Limited	2.698044
Trilogy Resource Corporation	3.659240
Westcoast Petroleum Ltd.	5.760105
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



HUXLEY GAS UNIT NO. I

ERCB

INITIAL EFFECTIVE DATE - I JUNE 1972
UNIT OPERATOR - SCEPTRE RESOURCES LIMITED

### JARROW UNIT

Located in the Viking Kinsella Field

Unit Operator - Resman Holdings Ltd.

Initial Effective Date - 1 September 1972

Participation Revised - 21 November 1989

\*Unitized Zone - Viking, Glauconite and Colony Formations

\*Unitized Substance - Gas

### Working Interest Owners

Amoco Canada Resources Ltd. Buttes Resources Canada, Ltd. Resman Holdings Ltd.

### Per Cent Participation

1.768688 26.206190 72.025122 100.000000

\*For a complete definition of unitized zones and substances see Unit

(For Area - See Reverse Side)

R.11	R.10 \	W. 4M.
		T.46
		T.45

# JARROW UNIT

ERCB

INITIAL EFFECTIVE DATE- 1 SEPTEMBER 1972 UNIT OPERATOR-RESMAN HOLDINGS LTD.

### JARROW GAS UNIT NO. 2

Located in the Viking-Kinsella Field

Unit Operator - Resman Holdings Ltd.

Initial Effective Date - 29 March 1974

Participation Revised - 21 November 1989

\*Unitized Zone - Viking, Glauconitic, Basal Quartz and Colony Formations

\*Unitized Substance - Gas

### Working Interest Owners

Amoco Canada Resources Ltd. Buttes Resources Canada, Ltd. Ladd Exploration Company Resman Holdings Ltd. Southland Royalty Company

### Per Cent Participation

29.985674 6.686054 22.020688 19.286896 22.020688 100.000000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

R.10 R.9 W.4M. T.45 T.44

JARROW GAS UNIT NO.2

INITIAL EFFECTIVE DATE- 29 MARCH 1974 UNIT OPERATOR-RESMAN HOLDINGS LTD.



### JUDY CREEK WEST BEAVERHILL LAKE UNIT

Located in the Judy Creek Field

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 June 1964

Participation Revised - 1 December 1989

\*Unitized Zone - Swan Hills Member of the Beaverhill Lake Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

### Working Interest Owners

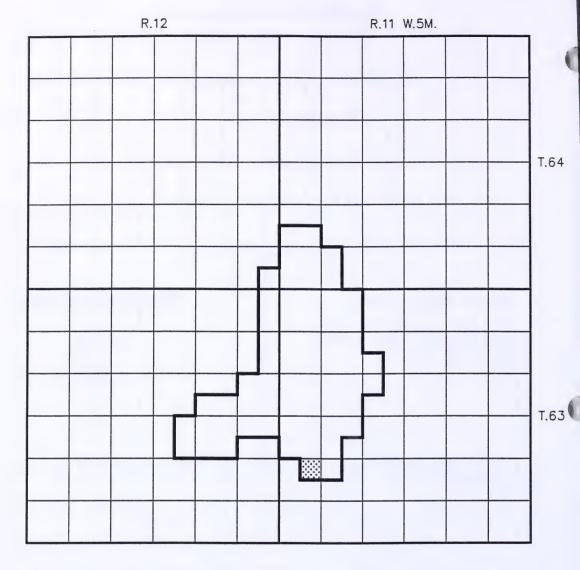
Esso Resources Canada Esso Resources Canada Limited Murphy Oil Company Ltd. Suncor Inc.

### Per Cent Participation

5.10526
89.47639
1.61686
3.80149
100.00000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# JUDY CREEK WEST BEAVERHILL LAKE UNIT



INITIAL EFFECTIVE DATE- 1 JUNE 1964 UNIT OPERATOR-ESSO RESOURCES CANADA LIMITED AREA OF CHANGE - 1 JUNE 1988

### JUMPING POUND WEST UNIT NO. 1

Located in the Jumping Pound West Field
Unit Operator - Shell Canada Limited

Initial Effective Date - 1 October 1967

Participation Revised - 1 August 1988

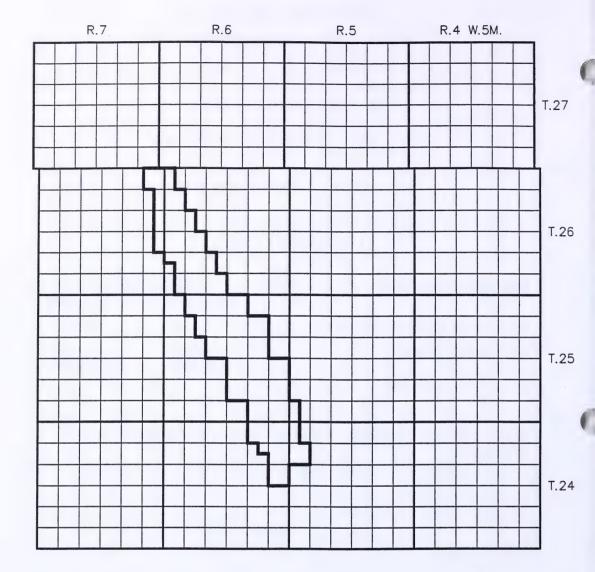
\*Unitized Zone - Turner Valley Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Owners Per Cent P	
	Natural Gas	Petroleum
PanCanadian Petroleum Limited	18.1590	18.8502
Shell Canada Limited	$\frac{81.8410}{100.0000}$	$\frac{81.1498}{100.0000}$

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# JUMPING POUND WEST UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE- 1 OCTOBER 1967 UNIT OPERATOR-SHELL CANADA LIMITED

# KAYBOB NOTIKEWIN UNIT NO. 1

Located in the Kaybob Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 May 1963

Participation Revised - 1 January 1990

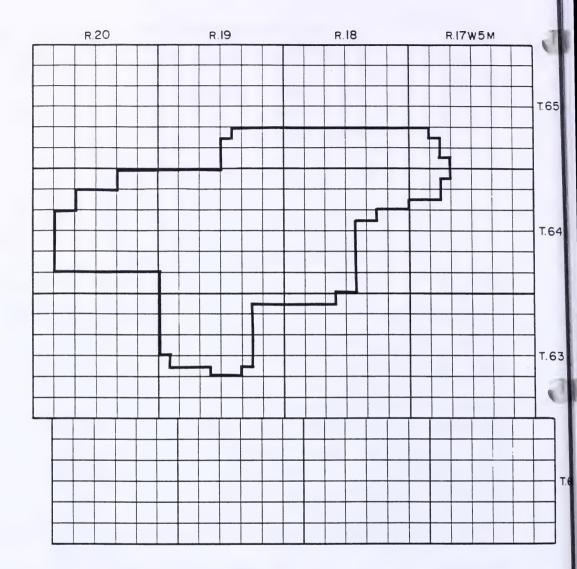
\*Unitized Zone - Notikewin Pool

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Amerada Minerals Corporation of Canada Ltd.	1.739899
Amoco Canada Petroleum Company Ltd.	1.596443
Amoco Canada Resources Ltd.	0.263962
BP Resources Canada Limited	5.700896
Chevron Canada Resources	30.824984
Conwest Petroleum Corporation	0.004602
Encor Energy Corporation Inc.	3.091211
Esso Resources Canada	1.198304
Gulf Canada Resources Limited	21.014900
Mobil Oil Canada	5.207060
Petro-Canada Inc.	22.600280
Petroterra Natural Resources Ltd.	2.346378
Shell Canada Limited	0.354885
Total Petroleum Canada Ltd.	1.111907
Union Pacific Resources Inc.	2.360519
Unocal Canada Limited	0.583770
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



KAYBOB NOTIKEWIN UNIT NO. I INITIAL EFFECTIVE DATE- I MAY 1963 UNIT OPERATOR- PETRO- CANADA INC.



### KILLAM CAMERON SAND UNIT

Located in the Killam Field

Unit Operator - Husky Oil Operations Ltd.

Initial Effective Date - 14 September 1976

Participation Revised - 1 February 1990

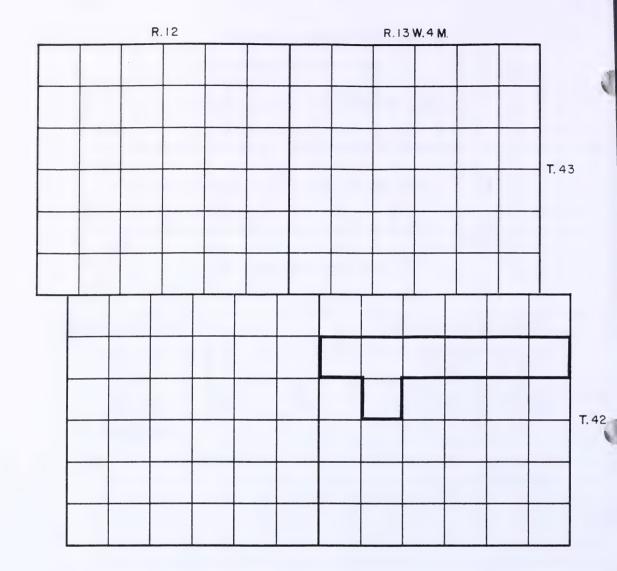
\*Unitized Zone - Cameron Sand Formation

\*Unitized Substance - Gas

# Working Interest Owners Per Cent Participation Amoco Canada Resources Ltd. 37.53508 Canterra Energy Ltd. 2.33893 Husky Oil Operations Ltd. 37.44897 Maligne Resources Limited 2.15365 Sceptre Resources Limited 12.92185 Scurry-Rainbow Oil Limited 7.60152 100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# KILLAM CAMERON SAND UNIT

ERCB

INITIAL EFFECTIVE DATE - 14 SEPTEMBER 1976 UNIT OPERATOR - HUSKY OIL OPERATIONS LTD.

### LEDUC-WOODBEND D-2 UNIT

Located in the Leduc-Woodbend Field
Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 October 1960

Participation Revised - 1 February 1990

\*Unitized Zone - Nisku D-2 Formation

\*Unitized Substance - Crude oil, natural gas, condensate and all other hydrocarbons (except coal)

Working Interest Owners		Per Cent Participation
Adanac Oil & Gas Limited		0.07420
Amoco Canada Resources Ltd.		
Amoco Resources	3.62380	
Amoco Resources Carried Interest	0.75770	4.38150
Bankeno Resources Limited		0.09070
Bow Valley Industries Ltd.		0.50960
Canadian Superior Oil Ltd.		0.93306
Centipede Holdings Ltd.		0.45250
Chair Resources Inc.		1.82030
Chevron Canada Resources		0.39120
Enerplus Resources Corporation		1.69920
Esso Resources Canada		0.27845
Esso Resources Canada Limited		72.20710
Guaranty Trust Company of Canada		0.32070
Gulf Canada Resources Limited		0.27845
Home Oil Company Limited		3.92391
Husky Oil Operations Ltd.		
Husky	1.07250	
Husky & Associates	0.25380	1.32630
Magnum Resources Ltd.		0.13360
Mutual Holdings Limited		
Mutual Holdings Limited	0.31390	
Mutual Holdings Limited & Associates	0.31520	0.62910
Norcen Energy Resources Limited		
Norcen Energy Resources Limited	0.48937	
Western Properties Limited	0.70593	1.19530
Norcen Energy Resources Limited		0.43010
Pembina Resources Limited		
Pembina Resources Limited	0.26437	

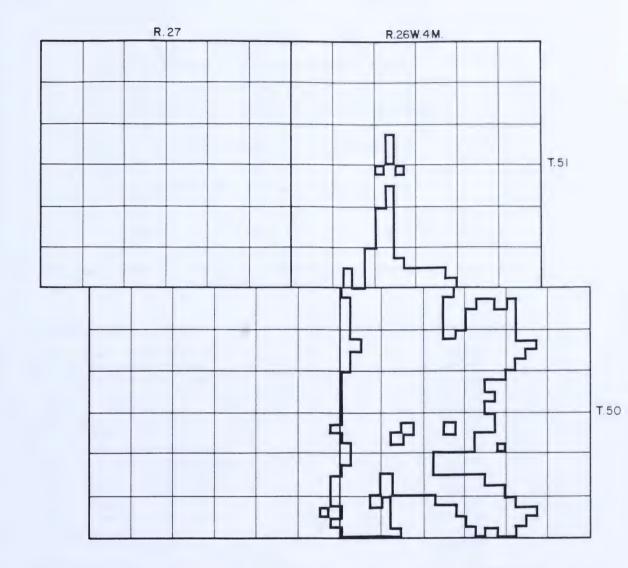
Working Interest	)wn	ers
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### Per Cent Participation

Canadian Spooner Resources Inc.	0.01913	0.28350
Sereda Oils Ltd.		0.65350
Shell Canada Limited		2.76863
TAP Capital Gas Corporation		1.30700
Ulster Petroleums Ltd.		0.36930
Venwest Resources Limited		1.24670
Well Operators Limited		
Murphy Oil Company Ltd.	0.76644	
Well Operators Limited	0.65993	
Scurry Rainbow Oil Limited	0.86973	2.29610
		100,00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# LEDUC WOODBEND D-2 UNIT

ERCB

INITIAL EFFECTIVE DATE - 1 OCTOBER 1960
UNIT OPERATOR - ESSO RESOURCES CANADA LIMITED



### LEDUC-WOODBEND D-3 UNIT

Located in the Leduc-Woodbend Field

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 October 1960

Participation Revised - 1 January 1990

\*Unitized Zone - Leduc (D-3) Unit Formations

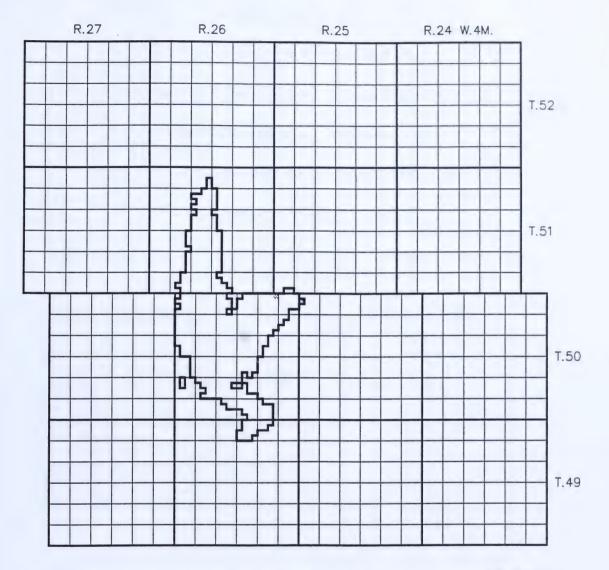
\*Unitized Substance - Crude oil, natural gas, condensate and all other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	2.4455790
Bankeno Resources Limited	0.0029085
Canadian Superior Oil Ltd.	0.8596690
Canterra Energy Limited	0.4490819
Centipede Holdings Ltd.	0 4490819
Chair Holdings Limited	1.3418716
Chevron Canada Resources	0.0689147
Encor Energy Corporation Inc.	0.2141930
Enerplus Resources Corporation	0.1570886
Esso Resources Canada Limited	82.0253214
B. H. Gaboury Holdings Ltd.	0.0129636
Bernard Hemsing	0.0046218
Home Oil Company Limited	3.7759697
Moraine Resources Ltd.	0.1729528
Morrison Petroleums Ltd.	0.0129636
Mutual Holdings Limited & Associates	0.1722651
Nevada Oil & Gas Ltd.	0.0081023
Norcen Energy Resources Limited	
Norcen, Western Properties 0.0034897	
Norcen 2.1510557	2.1545454
Normandie Resource Corporation	0.0683266
NV Resources Corporation Ltd.	0.0081023
Orbit Oil & Gas Ltd.	0.0032409
PanCanadian Petroleum Limited	0.2346381
Passburg Petroleums Ltd.	0.2141930
Petro-Canada Inc.	1.3217889

Working Interest Owners	Per Cent Participation
Sereda Oils Ltd. Shell Canada Limited Southern Cross Investments Ltd.	0.4329299 2.4798633 0.0379652
Triple Three Triple Nine Resources Ltd. Ulster Petroleums Ltd. Venwest Resources Ltd.	0.0066735 0.2943300 0.1570884
Yeske Petroleums Ltd. 286535 Alberta Ltd.	0.3998024 0.0129636 100.0000000

 $<sup>\</sup>star For\ a$  complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# LEDUC-WOODBEND D-3 UNIT

ERCB

INITIAL EFFECTIVE DATE- 1 OCTOBER 1960
UNIT OPERATOR-ESSO RESOURCES CANADA LIMITED

AREA OF CHANGE - 1 JANUARY 1990



#### LOBSTICK CARDIUM UNIT

#### Located in the Pembina Field

Unit Operator - Amoco Canada Petroleum Company Ltd.

Initial Effective Date - 1 December 1963

Participation Revised - 1 January 1990

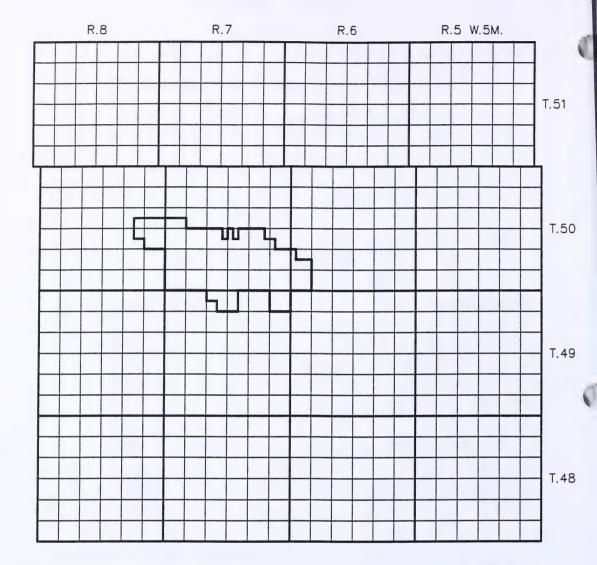
\* Unitized Zone - Cardium Formation

\* Unitized Substance - Crude oil, natural gas, condensate and all other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	49.04658
Amoco Canada Resources Ltd.	3.74036
BP Resources Canada Limited	1.78371
Canadian Occidental Petroleum Ltd.	13.06025
DEKALB Energy Canada Ltd.	0.77550
Esso Resources Canada	9.53736
Esso Resources Canada Limited	2.41620
Mobil Oil Canada	2.75193
NCE Oil and Gas (87-1) Ltd.	0.47832
Norcen Energy Resources Limited	0.46109
Ranger Oil Limited	10.01529
Union Pacific Resources Inc.	3.58314
Wintershall Oil of Canada Ltd.	2.35027
	100.00000

<sup>\*</sup> For a complete definition of unitized zones and substances see Unit Documents.

(For Area - See Reverse Side)



# LOBSTICK CARDIUM UNIT



INITIAL EFFECTIVE DATE- 1 DECEMBER 1963
UNIT OPERATOR-AMOCO CANADA PETROLEUM COMPANY LTD

#### LONE PINE CREEK D-3 GAS UNIT NO. 1

Located in the Lone Pine Creek Field

Unit Operator - Amoco Canada Petroleum Company Ltd.

Initial Effective Date - 1 September 1970

Participation Revised - 1 March 1990

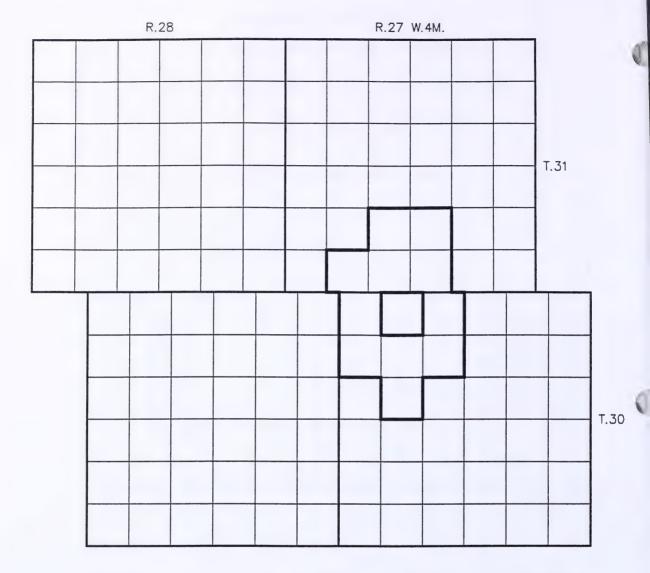
\*Unitized Zone - Leduc (D-3)

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	5.0705
Amoco Canada Resources Ltd.	47.1912
Martha Billes	10.5468
MLC Oil and Gas Ltd.	14.2198
Mobil Oil Canada	0.2104
Pensionfund Energy Resources Limited	1.1719
Petro Canada Inc.	14.7170
Texaco Canada Resources	6.8724
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# LONE PINE CREEK D-3 GAS UNIT NO.1



INITIAL EFFECTIVE DATE- 1 SEPTEMBER 1970 UNIT OPERATOR-AMOCO CANADA PETROLEUM COMPANY LTD.

#### LONE PINE CREEK GAS UNIT NO. 1

Located in the Lone Pine Creek Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 May 1965

Participation Revised - 1 March 1990

\*Unitized Zone - Wabamun

\*Unitized Substance - Gas

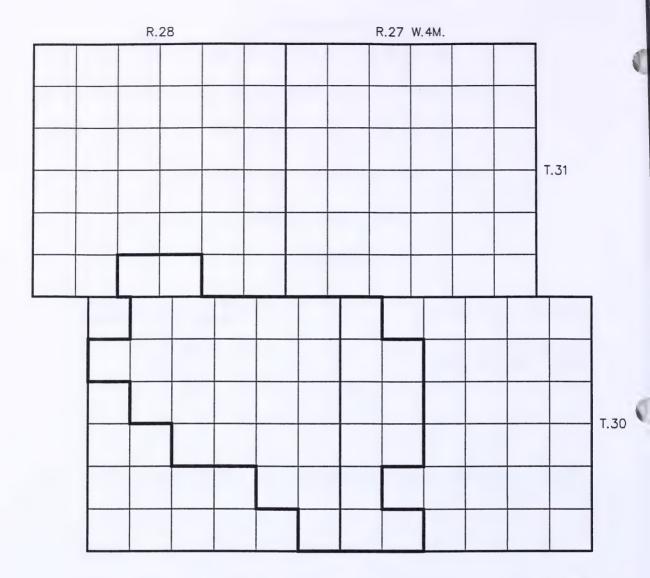
#### Working Interest Owners

Amoco Canada Resources Ltd. MLC Oil and Gas Ltd. Texaco Canada Resources

#### Per Cent Participation

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# LONE PINE CREEK GAS UNIT NO.1



INITIAL EFFECTIVE DATE- 1 MAY 1965
UNIT OPERATOR-AMOCO CANADA RESOURCES LTD.

#### LONE PINE CREEK GAS UNIT NO. 5

Located in the Lone Pine Creek Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 July 1971

Participation Revised - 1 March 1990

\*Unitized Zone - Crossfield Member

\*Unitized Substance - Natural gas

#### Working Interest Owners

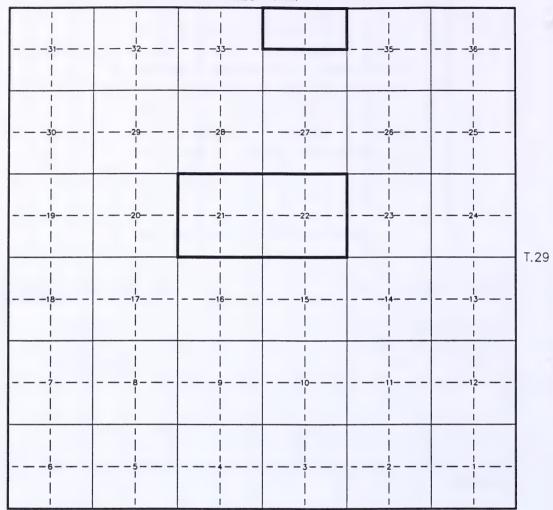
Per Cent Participation

Amoco Canada Resources Ltd. MLC Oil and Gas Ltd. Petro-Canada Inc. 28.710938 9.570312 61.718750 100.000000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

R.28 W.4M.



LONE PINE CREEK GAS UNIT NO.5
INITIAL EFFECTIVE DATE- 1 JULY 1971
UNIT OPERATOR-AMOCO CANADA RESOURCES LTD.



#### MALMO D-3B GAS UNIT

Located in the Malmo Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 March 1977

Participation Revised - 1 February 1990

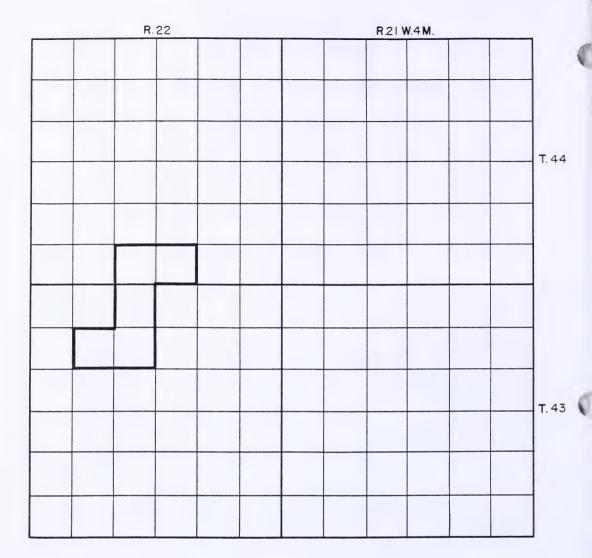
\*Unitized Zone - Leduc Formation

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Bow Valley Industries Ltd.	21.347380
Esso Resources Canada	7.960130
Gulf Canada Resources Limited	37.149570
Mark Resources Inc.	4.158740
Norcen Energy Resources Limited	0.842660
Petro-Canada Inc.	7.960130
John H. Rathwell	0.693130
RTEC One Resources Inc.	19.195130
John A. Tessari	0.693130
	100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



MALMO D-3B GAS UNIT
INITIAL EFFECTIVE DATE- I MARCH 1977
UNIT OPERATOR- GULF CANADA RESOURCES LIMITED



#### MAPLE GLEN GAS UNIT

Located in the Provost Field

Unit Operator - Wainoco Oil Corporation

Initial Effective Date - 16 March 1976

Participation Revised - 1 December 1989

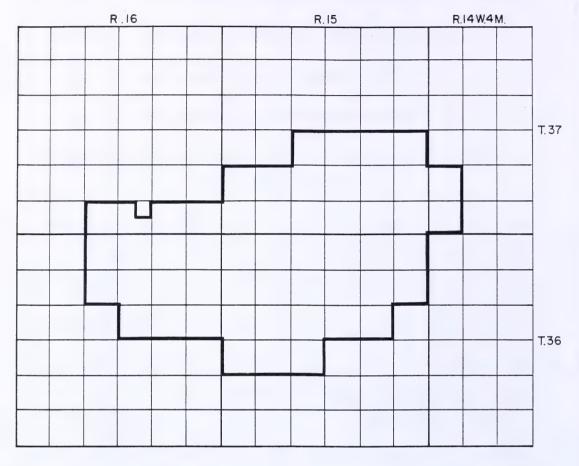
\*Unitized Zone - Basal Belly River Sandstone & Viking Sandstone

\*Unitized Substance - Gas

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	9.861793
Canadian Roxy Petroleum Ltd.	10.670464
Columbia Gas Development of Canada Limited	0.066389
Conwest Petroleum Corporation	0.453104
DCP Canada Inc.	0.422457
Faraday Resources Inc.	1.812426
Gardiner Oil and Gas Limited	2.265530
Janus Properties Ltd.	2.265530
Meyers-Lasher, Inc.	2.265530
Norcen Energy Resources Limited	0.485061
Pacific Enterprises Oil Company (Netherlands)	0.345112
PanCanadian Petroleum Limited	9.691738
Ranchmen's Resources Ltd.	10.670464
Universal Explorations Ltd.	0.690222
Voyager Energy Inc.	0.257694
Wainoco Oil Corporation	45.821811
408471 Alberta Ltd.	1.954675
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents.

(For Area - See Reverse Side)



# MAPLE GLEN GAS UNIT



INITIAL EFFECTIVE DATE — 16 MARCH 1976
UNIT OPERATOR — WAINOCO OIL CORPORATION

#### MARKERVILLE GAS UNIT NO. 1

Located in the Markerville Field

Unit Operator - Amoco Canada Petroleum Company Ltd.

Initial Effective Date - 1 May 1982

Participation Revised - 1 January 1990

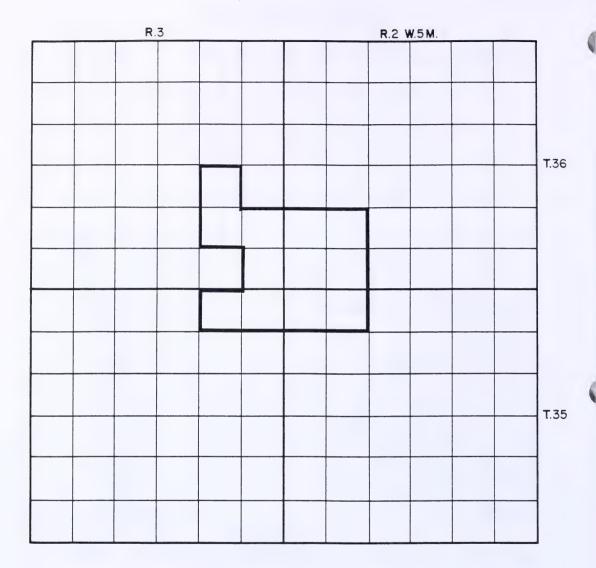
\*Unitized Zone - Pekisko Formation

\*Unitized Substance - Natural gas

#### Working Interest Owners Per Cent Participation Amoco Canada Petroleum Company Ltd. 67.11662 Amoco Canada Resources Ltd. 2.55414 2.21540 Canada Northwest Energy Limited Canpar Holdings Ltd. 4.03028 0.24913 Central Explorers Inc. Czar Resources Ltd. 0.33196 2.32285 Ghost River Resources Ltd. 2,75822 Jameen Resources Ltd. 0.02901 Northern Development Company Limited 5.87275 Orbit Oil & Gas Ltd. 1.41777 PanCanadian Petroleum Limited 0.02176 Petrorep (Canada) Ltd. 0.15622 Sceptre Resources Limited Sienna Resources Limited 0.87748 2.94225 Solstead Farms Ltd. 6.35676 Unocal Canada Resources 0.74740 Wilderness Energy Limited 100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



MARKERVILLE GAS UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE - 1 MAY 1982
UNIT OPERATOR- AMOCO CANADA PETROLEUM COMPANY LTD.

#### MATZIWIN-GEM GAS UNIT NO. 2

Located in the Matziwin Field

Unit Operator - Oakwood Petroleums Ltd.

Initial Effective Date - 1 September 1976

Participation Revised - 1 September 1989

\*Unitized Zone - Medicine Hat, Milk River

\*Unitized Substance - Gas

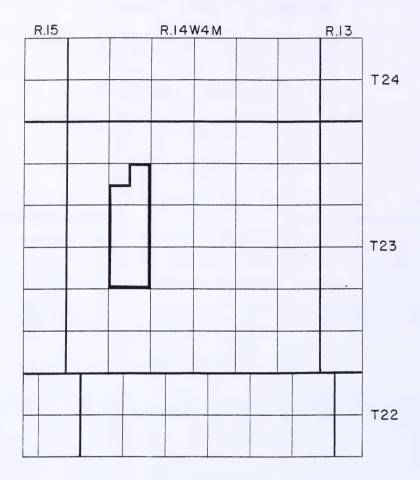
# Working Interest Owners Harrington & Bibler Ltd. North West Exploraton Co. Ltd. NuGas Limited Oakwood Petroleums Ltd. PanCanadian Petroleums Limited Per Cent Participation 4.46292 3.34720 41.52806 14.50450 PanCanadian Petroleums Limited 22.31463

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD Calgary, Alberta

100.00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



MATZIWIN - GEM GAS UNIT NO.2

INITIAL EFFECTIVE DATE -SEPTEMBER I, 1976

UNIT OPERATOR - OAKWOOD PETROLEUMS LTD.

#### MAZEPPA CROSSFIELD UNIT NO. 1

Located in the Okotoks Field

Unit Operator - Canadian Occidental Petroleum Ltd.

Initial Effective Date - 1 August 1986

Participation Revised - 1 January 1990

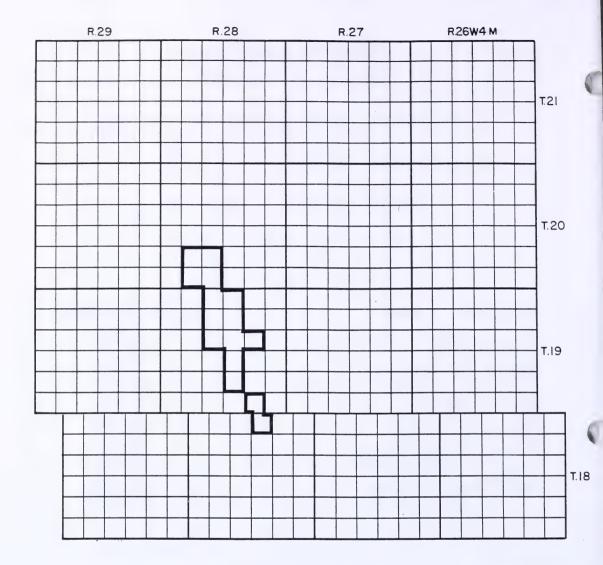
\*Unitized Zone - Crossfield Member

\*Unitized Substance - Gas

Working Interest Owners	Per Cent Participation
Adeco Drilling and Engineering Co. Ltd.	0.697564
Amerada Minerals Corporation of Canada Ltd.	18.961309
American Eagle Petroleums Ltd.	0.904763
Amoco Canada Resources Ltd.	0.765422
Canadian Occidental Petroleum Ltd.	50.798514
Canpar Holdings Ltd.	0.542680
Eagle Resources Ltd.	1.055557
Encor Energy Corporation Inc.	0.999210
Enerplus Resources Corporation	0.452382
J. M. Huber Corporation	18.809630
Passburg Petroleums Ltd.	5.560587
Venwest Resources Limited	0.452382
	100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# MAZEPPA CROSSFIELD UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE - 1 AUGUST 1986
UNIT OPERATOR- CANADIAN OCCIDENTAL PETROLEUM LTD.

#### MEDICINE RIVER PEKISKO C POOL UNIT

Located in the Medicine River Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 August 1972

Participation Revised - 1 January 1990

\*Unitized Zone - Pekisko Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

#### Working Interest Owners

# Amoco Canada Resources Ltd. Gulf Canada Resources Limited Muirfield Petroleum Corporation Pengrowth Resource Corporation Tap Capital Gas Corporation

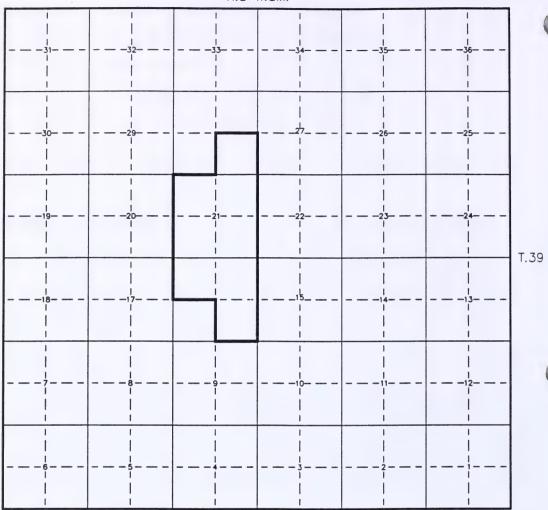
#### Per Cent Participation

47	.828
48	. 946
0	.121
2	.299
0	.806
100	.000
	48 0 2 0

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

R.3 W.5M.



MEDICINE RIVER PEKISKO C POOL UNIT



INITIAL EFFECTIVE DATE- 1 AUGUST 1972
UNIT OPERATOR - AMOCO CANADA RESOURCES LTD.

#### MEEKWAP D-2A UNIT NO. 1

Located in the Meekwap Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 May 1974

Participation Revised - 1 February 1990

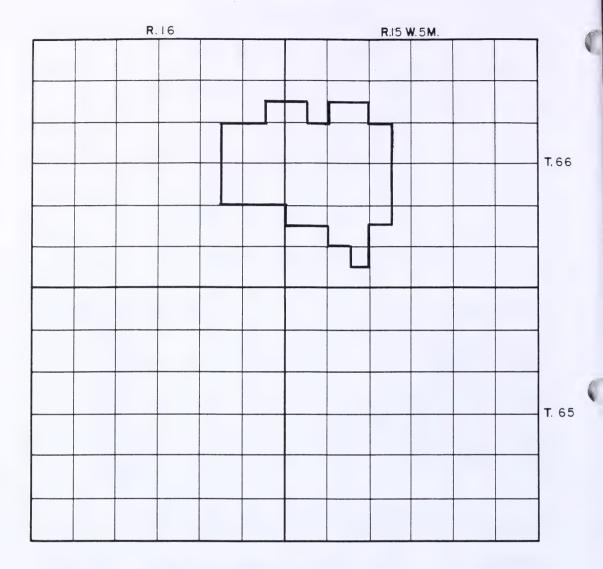
\*Unitized Zone - Nisku (D-2A) Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Gulf Canada Resources Limited	30.711088
J. M. Huber Corporation	4.820512
Mobil Oil Canada	10.229770
Oakwood Petroleums Ltd.	13.727882
PanCanadian Petroleum Ltd.	10.396934
Placer Development Ltd.	3.580418
Procan Exploration Company Limited	1.534466
Samedan Oil of Canada, Inc.	13.727880
Saskatchewan Oil and Gas Corporation	8.513290
Shell Canada Limited	2.757760
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# MEEKWAP D-2A UNIT NQI

ERCB

INITIAL EFFECTIVE DATE - I MAY 1974
UNIT OPERATOR - GULF CANADA RESOURCES LIMITED

#### MONOGRAM GAS UNIT

Located in the Alderson Field

Unit Operator - BP Resources Canada Limited

Initial Effective Date - 1 June 1975

Participation Revised - 1 January 1990

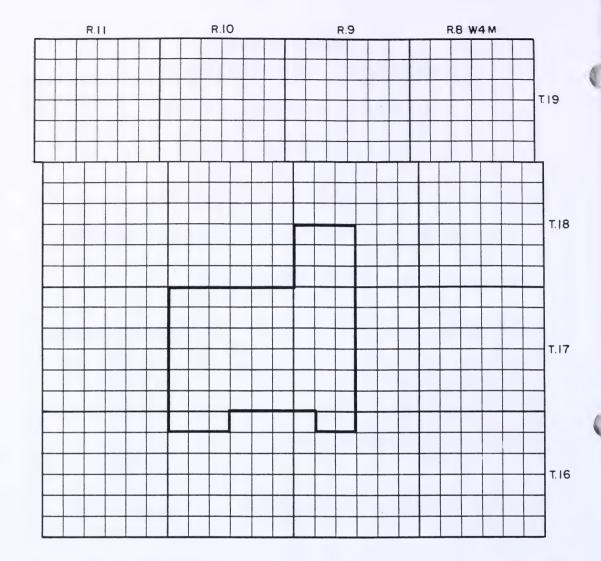
\*Unitized Zone - Milk River, Medicine Hat & Second White Specks

\*Unitized Substance - Gas

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	2.8267
BP Resources Canada Limited	33.5032
Enerplus Resources Corporation	2.9995
Esso Resources Canada	1.0400
Exchange Resources Ltd.	27.9530
PanCanadian Petroleum Limited	6.3722
Pensionfund Energy Resources Limited	4.0287
Trilogy Corporaiton	21.2767
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# MONOGRAM GAS UNIT

ERCB

INITIAL EFFECTIVE DATE - I JUNE 1975
UNIT OPERATOR- BP RESOURCES CANADA LIMITED

#### NITON UNIT

#### Located in the Niton Field

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 November 1978

Participation Revised - 1 February 1990

\*Unitized Zone - Basal Quartz Sand

\*Unitized Substance - Crude oil or gas

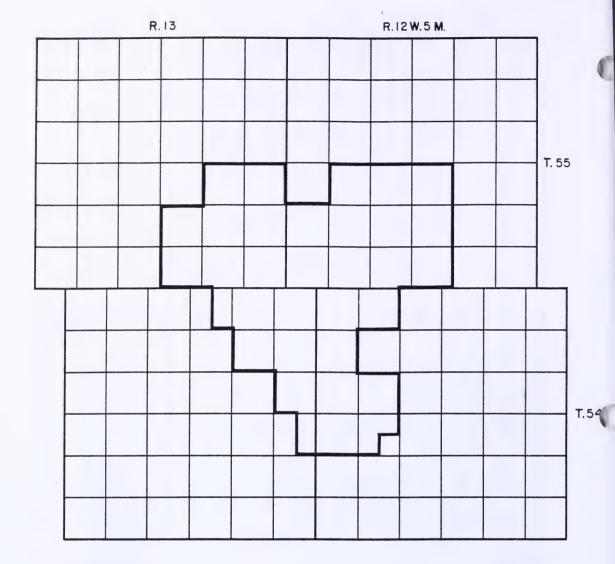
### Working Interest Owners

#### Per Cent Participation

7.29889075
6.68404600
21.38313300
1.05185300
0.14033700
1.16916360
0.65979300
0.65979300
2.41002500
25.96420300
0.54663800
5.26123620
3.19698600
5.34208400
5.26123620
6.60878100
1.31076025
1.81443300
100.00000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# NITON UNIT



INITIAL EFFECTIVE DATE - I NOVEMBER 1978
UNIT OPERATOR - ESSO RESOURCES CANADA LIMITED

#### NORTH OYEN GAS UNIT

Located in the Oyen Field

Unit Operator - Canterra Energy Ltd

Initial Effective Date - 1 February 1965

Participation Revised - 1 December 1989

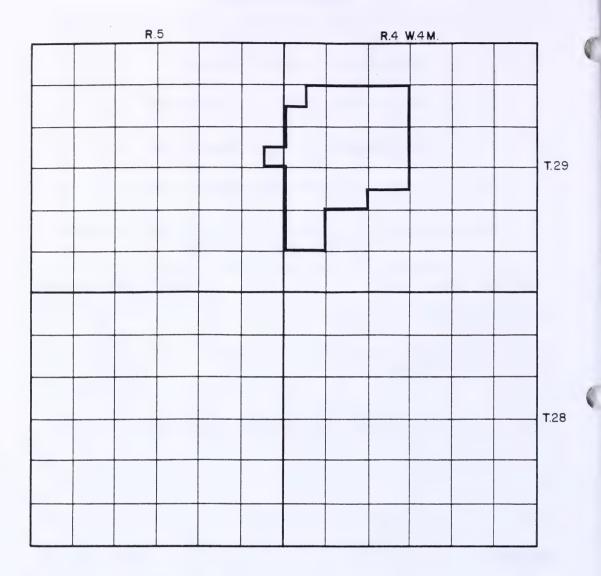
\*Unitized Zone - Viking or Detrital Formations

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except crude oil and coal)

Working Interest Owners	Per Cent Participation
Canterra Energy Ltd.	62.9167
Gulf Canada Resources Limited	4.5833
McColl-Frontenac Inc.	11.2500
Prairie Oil Royalties Co. Ltd.	5.5556
TAP Capital Gas Corporation	15.6944
	100,0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



NORTH OYEN GAS UNIT
INITIAL EFFECTIVE DATE - 1 FEBRUARY 1965
UNIT OPERATOR - CANTERRA ENERGY LTD.



#### OYEN GAS UNIT NO. 4

Located in the Oyen Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 December 1977

Participation Revised - 1 February 1990

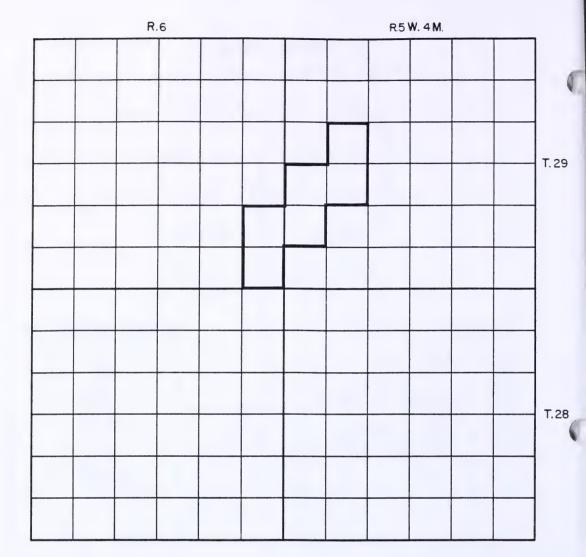
\*Unitized Zone - Viking Formation

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
Articana Resources Ltd.	5.0000
Reginald J. Gibbs	1.6667
Gold River Oil & Gas Ltd.	8.3333
Gulf Canada Resources Limited	72.3333
Floyd Lander	1.0000
Estate of Albert McCruden	3.3333
John S. Moore (agent is Mr. Douglas Hilland)	1.6667
Ranchmen's Resources Ltd.	5.0000
John Stein	1.6667
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



OYEN GAS UNIT NO. 4



INITIAL EFFECTIVE DATE - 1 DECEMBER 1977
UNIT OPERATOR - GULF CANADA RESOURCES LIMITED

#### PATRICIA GAS UNIT NO. 1

Located in the Princess Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 January 1968

Participation Revised - 1 March 1990

\*Unitized Zone - All Formations down to and including the base of the deepest Formation of the Paleozoic Age

\*Unitized Substance - Gas

#### Working Interest Owners

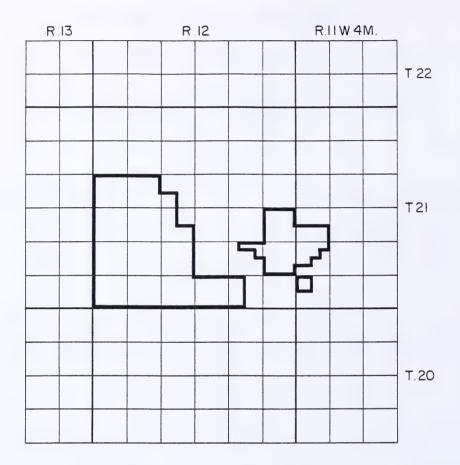
Amoco Canada Resources Ltd. Chevron Standard Limited Maligne Resources Limited

#### Per Cent Participation

66.46 24.82 8.72 100.00

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



PATRICIA GAS UNIT NO.1

INITIAL EFFECTIVE DATE - JANUARY I, 1968

UNIT OPERATOR - AMOCO CANADA RESOURCES LTD.

#### PEMBINA BELLY RIVER AA POOL UNIT

Located in the Pembina Field

Unit Operator - Pembina Resources Limited

Initial Effective Date - 1 February 1968

Participation Revised - 1 March 1990

\*Unitized Zone - Belly River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Gardiner Oil and Gas Limited	6.3501
Pacific Enterprises Oil Company	6.7798
Pembina Resources Limited	64.2808
Petrorep (Canada) Ltd.	19.5589
Wrangler Management Ltd.	3.0304
	100,0000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

R.5 R.4 W.5M. T.49 T.48

PEMBINA BELLY RIVER AA POOL UNIT



INITIAL EFFECTIVE DATE- 1 FEBRUARY 1968
UNIT OPERATOR-PEMBINA RESOURCES LIMITED

#### PEMBINA BELLY RIVER B EAST UNIT

Located in the Pembina Field

Unit Operator - Enerplus Resources Corporation

Initial Effective Date - 1 September 1972

Participation Revised - 1 February 1990

\*Unitized Zone - Belly River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Mrs. Martha Billes	8.441614
Bonanza Oil & Gas Ltd.	7.693037
Central Explorers Inc.	16.966054
Cheyenne Petroleum Corporation	0.574116
Enerplus Resources Corporation	49.712937
Jedal Resources Inc.	3.915242
MLC Oil and Gas Ltd.	5.220324
Pembina Resources Limited	7.476676
	100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

R.4 R.3 W.5M. T.48 T.47

PEMBINA BELLY RIVER B EAST UNIT

ERCB

INITIAL EFFECTIVE DATE- 1 SEPTEMBER 1972
UNIT OPERATOR-ENERPLUS RESOURCES CORPORATION

### PEMBINA BELLY RIVER DDD UNIT NO. 1

Located in the Pembina Field

Unit Operator - Esso Resources Canada

Initial Effective Date - 1 March 1989

Participation Revised - 1 February 1990

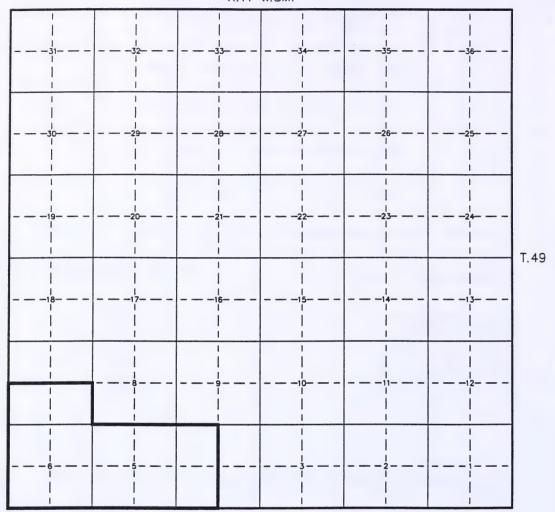
\*Unitized Zone - Belly River Formation

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation					
Amoco Canada Resources Ltd.	29.0249					
Dinas Corporation	0.4519					
Encor Energy Corporation Inc.	10.4880					
Esso Resources Canada	45.0048					
Norwest Oil & Gas Corp.	7.5152					
Sceptre Resources Limited	7.5152					
	100.0000					

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



PEMBINA BELLY RIVER DDD UNIT NO.1



INITIAL EFFECTIVE DATE- 1 MARCH 1989
UNIT OPERATOR-ESSO RESOURCES CANADA

# PEMBINA CARDIUM UNIT NO. 2 (Bishop-Luscar-Texaco Pembina Unit)

Located in the Pembina Field

Unit Operator - Shell Canada Limited

Initial Effective Date - 1 December 1959

Participation Revised - 1 March 1990

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and any other substance which the parties have a right to recover

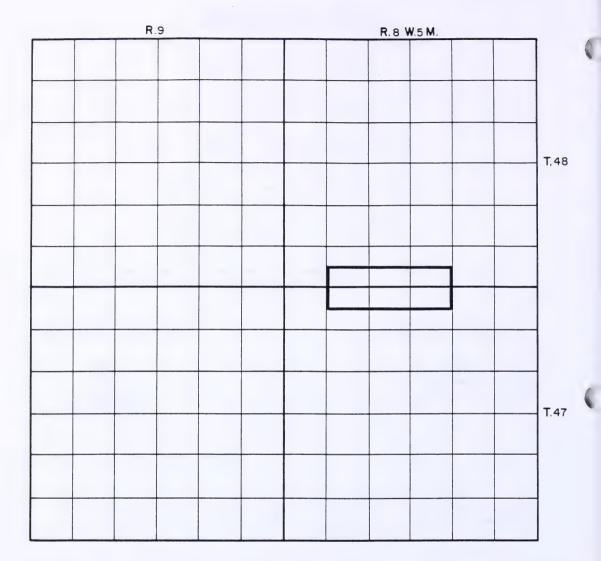
### Working Interest Owners

### Per Cent Participation

Esso Resources Canada Luscar Limited Shell Canada Limited 16.6667 16.6667 66.6666 100.0000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# PEMBINA CARDIUM UNIT NO.2

ERCB

INITIAL EFFECTIVE DATE- | DECEMBER, 1959 UNIT OPERATOR- SHELL CANADA LIMITED

# PEMBINA CARDIUM UNIT NO. 10 (Berrymoor Cardium Unit)

Located in the Pembina Field

Unit Operator - Esso Resources Canada Limited

Initial Effective Date - 1 August 1962

Participation Revised - 1 January 1990

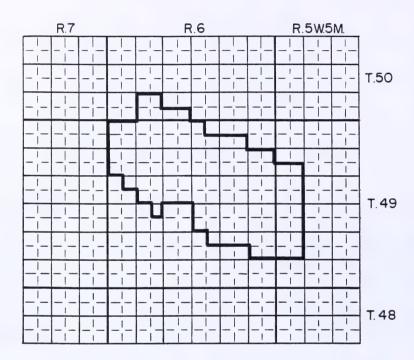
\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation				
Acquifund Resources Limited	2.898132				
Amoco Canada Resources Ltd.	11.744683				
DEKALB Energy Canada Ltd.	11.776225				
Esso Resources Canada Limited	27.380360				
ICG Resources Ltd.	1.753789				
Mobil Oil Canada	27.380360				
Shell Canada Limited	14.848115				
Star Oil & Gas Ltd.	2.218336				
	100.000000				

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



### PEMBINA CARDIUM UNIT NO. 10 (BERRYMOOR CARDIUM UNIT)

INITIAL EFFECTIVE DATE - AUGUST 1, 1962

UNIT OPERATOR - ESSO RESOURCES CANADA LIMITED

### PEMBINA CARDIUM UNIT NO. 31

Located in the Pembina Field

Unit Operator - Pembina Resources Limited

Initial Effective Date - 1 November 1960

Participation Revised - 1 March 1990

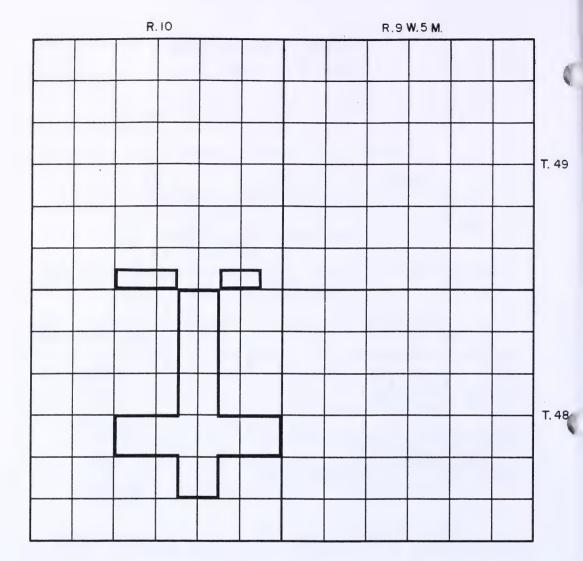
\*Unitized Zone - Cardium Formation

\*Unitized Substance - Crude oil, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	3.9000
Heenan Senlac Resources Limited	0.7146
Indra Oil & Gas Ltd.	1.2000
Lakewood Oil & Gas Ltd.	0.9000
Mobil Oil Canada	14.4000
Pacific Enterprises Oil Company	0.9528
Pembina Resources Limited	44.7353
Petrorep (Canada) Ltd.	7.2006
Spruce Hills Production Company, Inc.	19.8917
Ultramar Oil and Gas Canada Limited	6.1050
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



PEMBINA CARDIUM UNIT NO. 31



INITIAL EFFECTIVE DATE - I NOVEMBER 1960 UNIT OPERATOR - PEMBINA RESOURCES LIMITED

### PEMBINA KEYSTONE CARDIUM UNIT NO. 1

Located in the Pembina Field

Unit Operator - Amoco Canada Resources

Initial Effective Date - 1 September 1965

Participation Revised - 1 January 1990

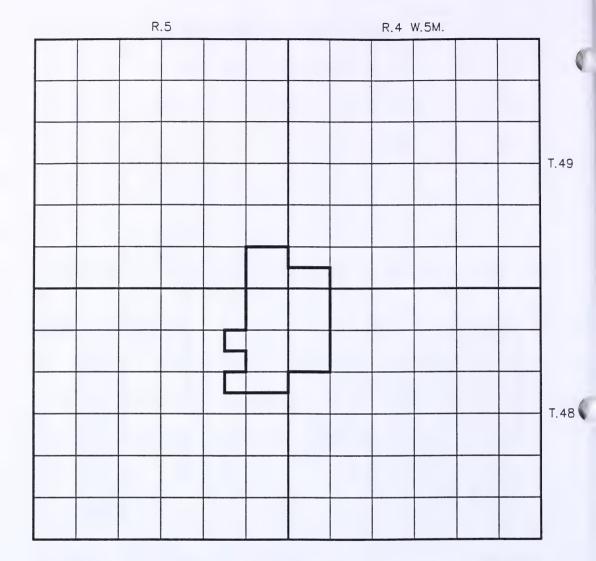
\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation				
Amoco Canada Resources Ltd.	40.54526				
Canadian Occidental Petroleum Ltd.	11.12869				
Enerplus Resources Corporation	0.62250				
Esso Resources Canada Limited	8.67567				
Gardiner Oil and Gas Limited	2.69234				
Norcen Energy Resources Limited	0.77813				
Norwich Resources Canada Ltd.	11.63562				
Pacific Enterprises Oil Company	3.38234				
Pembina Resources Limited	8.74815				
Petro-Canada Inc.	5.38457				
Petrorep (Canada) Ltd.	5.98722				
Wrangler Management Ltd.	0.41951				
	100.00000				

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



PEMBINA KEYSTONE CARDIUM UNIT NO.1 INITIAL EFFECTIVE DATE- 1 SEPTEMBER 1965 UNIT OPERATOR - AMOCO CANADA RESOURCES LTD.



### PEMBINA WEST CARDIUM UNIT NO. 25

Located in the Pembina Field

U.it Operator - Oakwood Petroleums Limited

Initial Effective Date - 21 May 1976

Participation Revised - 1 February 1990

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation				
Atcor Limited	4.5000				
Black Cat Oil & Gas Ltd.	19.5000				
Beaver Oil & Gas Ltd.	3.0000				
New York Oils Limited	48.0000				
Oakwood Petroleums Limited	25.0000				
	100.0000				

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

R.11 R.10 W.5M. T.49 T.48

PEMBINA WEST CARDIUM UNIT NO.25



INITIAL EFFECTIVE DATE- 21 MAY 1976
UNIT OPERATOR-OAKWOOD PETROLEUMS LIMITED

### POUCE COUPE SOUTH BOUNDARY B POOL UNIT NO. 1

Located in the Pouce Coupe South Field

Unit Operator - Royal Trust Energy Resources II Corporation

Initial Effective Date - 1 September 1984

Participation Revised - 1 March 1990

\*Unitized Zone - Boundary Lake "B" Pool

\*Unitized Substance - Petroleum and other hydrocarbons (except coal)

### Working Interest Owners

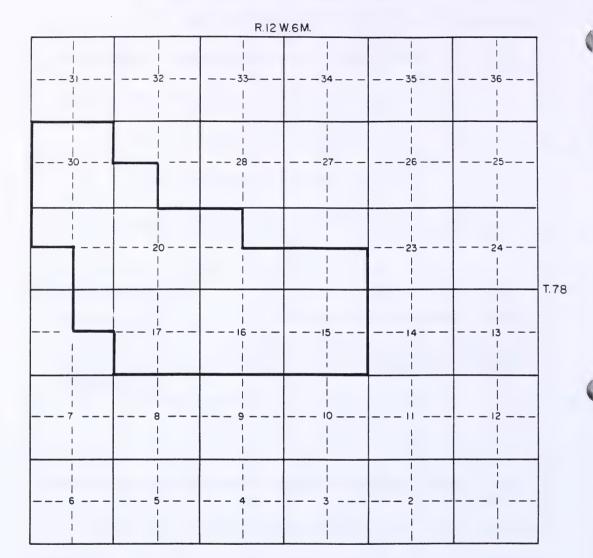
Conwest Exploration Company Limited CWCP Resources Inc. Hamilton Brothers Canadian Gas Company Ltd. Royal Trust Energy Resources II Corporation 398603 Alberta Ltd.

### Per Cent Participation

3.4539370	
24.4305067	
8.4139432	
50.0000000	
13.7016131	
100.0000000	

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



POUCE COUPE SOUTH BOUNDARY B POOL UNIT NO. I

INITIAL EFFECTIVE DATE - I SEPTEMBER 1984

UNIT OPERATOR - ROYAL TRUST ENERGY RESOURCES II CORPORATION

### PROVOST GAS UNIT NO. 3

Located in the Provost Field

Unit Operator - Amoco Canada Resources Ltd.

Initial Effective Date - 1 June 1971

Participation Revised - 1 March 1990

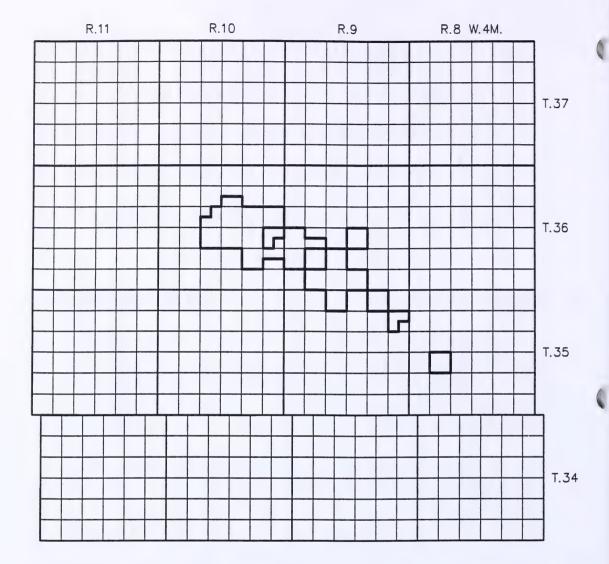
\*Unitized Zones - Viking and Upper Mannville Formations

\*Unitized Substance - Gas

Working Interest Owners	Per Cent Participation				
Amoco Canada Resources Ltd.	25.000				
Gabo Resources Limited	12.500				
Intensity Resources Ltd.	25.000				
Petrol Properties Ltd.	3.125				
RTEC One Resources Inc.	3.125				
Ryerson Oil and Gas Limited	25.000				
Summit Resources Limited	6.250				
	100.000				

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



## PROVOST GAS UNIT NO.3

ERCB

INITIAL EFFECTIVE DATE- 1 JUNE 1971
UNIT OPERATOR-AMOCO CANADA RESOURCES LTD.

### RAINBOW GAS UNIT NO. 1

Located in the Rainbow Field

Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 February 1976

Participation Revised - 1 October 1989

\*Unitized Zone - Keg River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation				
Canterra Energy Ltd.	50.0				
Mobil Oil Canada	$\frac{50.0}{100.0}$				

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

	R	.9			R.8 \	W.6M.		
								(
								T.109
								T.108

RAINBOW GAS UNIT NO.1

INITIAL EFFECTIVE DATE- 1 FEBRUARY 1976 UNIT OPERATOR-CANTERRA ENERGY LTD.



#### RAINBOW KEG RIVER B UNIT

Located in the Rainbow Field

Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 January 1967

Participation Revised - 1 October 1989

\*Unitized Zone - Keg River and portions of Muskeg Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

### Working Interest Owners

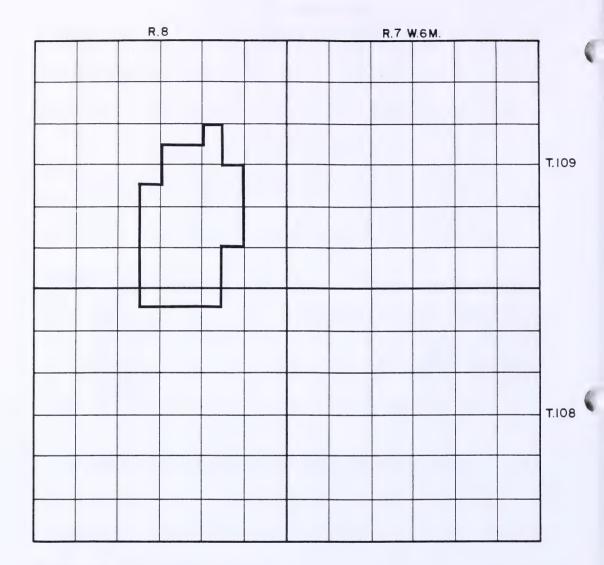
### Amoco Canada Petroleum Canada Ltd. Branzco Resources Ltd. Canterra Energy Ltd. Mobil Oil Canada Murphy Oil Company Ltd. Sabre Energy Ltd.

### Per Cent Participation

1.0000
0.0800
48.5000
48.5000
1.0000
0.9200
100.0000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# RAINBOW KEG RIVER B UNIT

ERCB

INITIAL EFFECTIVE DATE-I JANUARY 1967 UNIT OPERATOR- CANTERRA ENERGY LTD.

#### RAINBOW KEG RIVER F UNIT

Located in the Rainbow Field

Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 June 1976

Participation Revised - 1 October 1989

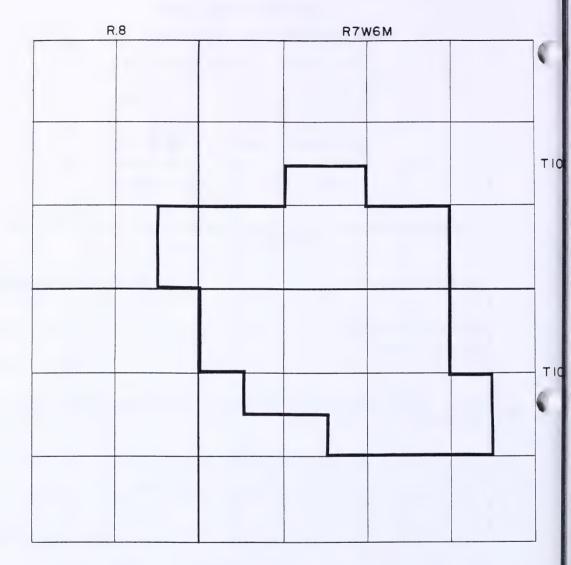
\*Unitized Zone - Keg River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Canterra Energy Ltd.	50.0
Mobil Oil Canada	$\frac{50.0}{100.0}$

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



## RAINBOW KEG RIVER F UNIT

UNIT OPERATOR - CANTERRA ENERGY LTD.

#### RAINBOW KEG RIVER E UNIT

Located in the Rainbow Field
Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 August 1976

Participation Revised - 1 October 1989

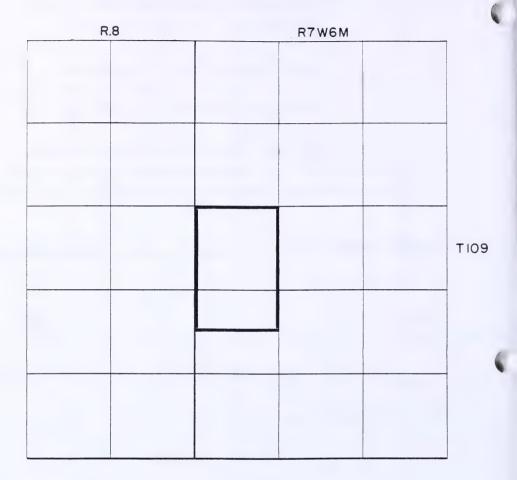
\*Unitized Zone - Muskeg and Keg River Formations

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation				
Canterra Energy Ltd.	50.0				
Mobil Oil Canada	$\frac{50.0}{100.0}$				

<sup>\*</sup>For a complete defintion of unitized zones and substances see Unit

(For Area - See Reverse Side)



## RAINBOW KEG RIVER E UNIT

### RAINBOW KEG RIVER G AND H UNIT

Located in the Rainbow Field

Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 February 1976

Participation Revised - 1 October 1989

\*Unitized Zone - Keg River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Canterra Energy Ltd.	50.0
Mobil Oil Canada	$\frac{50.0}{100.0}$

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

R8W6M TIC

# RAINBOW KEG RIVER G AND H UNIT

INITIAL EFFECTIVE DATE - FEBRUARY 1,1976

UNIT OPERATOR - CANTERRA ENERGY LTD.

#### RAINBOW KEG RIVER O UNIT

Located in the Rainbow Field
Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 February 1976

Participation Revised - 1 October 1989

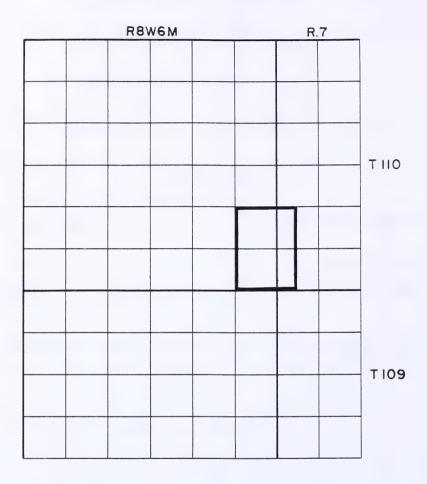
\*Unitized Zone - Keg River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Canterra Energy Ltd.	50.0
Mobil Oil Canada	$\frac{50.0}{100.0}$

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



### RAINBOW KEG RIVER O UNIT

INITIAL EFFECTIVE DATE-FEBRUARY 1,1976
UNIT OPERATOR - CANTERRA ENERGY LTD.

### RAINBOW SOUTH KEG RIVER A UNIT

Located in the Rainbow South Field
Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 February 1967

Participation Revised - 1 October 1989

\*Unitized Zone - Keg River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

### Working Interest Owners

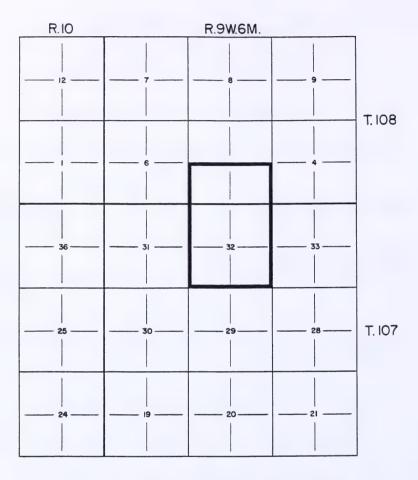
### Per Cent Participation

Canterra Energy Ltd.
Esso Resources Canada Limited
Mobil Oil Canada

16.0875 67.8250 16.0875

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# RAINBOW SOUTH KEG RIVER A UNIT

INITIAL EFFECTIVE DATE - FEBRUARY I, 1967

UNIT OPERATOR - CANTERRA ENERGY LTD.

#### RAINBOW SOUTH KEG RIVER E UNIT

Located in the Rainbow South Field
Unit Operator - Canterra Energy Ltd.

Initial Effective Date - 1 January 1971

Participation Revised - 1 October 1989

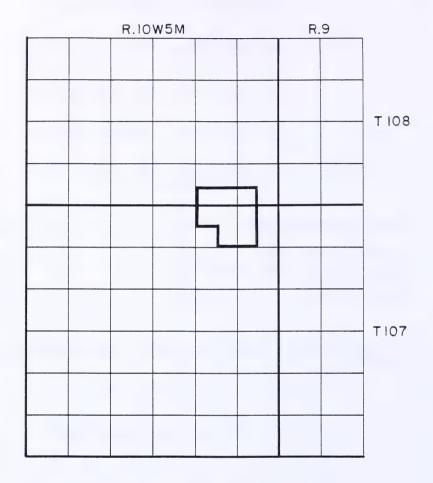
\*Unitized Zone - Keg River Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Canterra Energy Ltd.	29.50000
Esso Resources Canada Limited	27.33334
Mobil Oil Canada	29.50000
Ranger Oil Ltd.	13.66666
	100,00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# RAINBOW SOUTH KEG RIVER E UNIT

INITIAL EFFECTIVE DATE - JANUARY 1, 1971

UNIT OPERATOR - CANTERRA ENERGY LTD.



### RICINUS D-3A GAS UNIT NO. 1

Located in the Ricinus Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 June 1976

Participation Revised - 1 January 1990

\*Unitized Zone - Leduc Formation

\*Unitized Substance - Natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Petroleum Company Ltd.	26.50000
Chevron Canada Resources	15.66666
Gulf Canada Corporation	15.66667
Mobil Oil Canada	15.66667
Petro-Canada Inc.	26.50000
	100,00000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)

**R**.9 R.8 W.5M. T. 36 T.35

RICINUS D-3A GAS UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE- I JUNE 1976 UNIT OPERATOR- PETRO- CANADA INC.

### ROWLEY BELLY RIVER GAS UNIT NO. 1

Located in the Rowley Field

Unit Operator - Gulf Canada Resources Limited

Initial Effective Date - 1 March 1976

Participation Revised - 1 February 1990

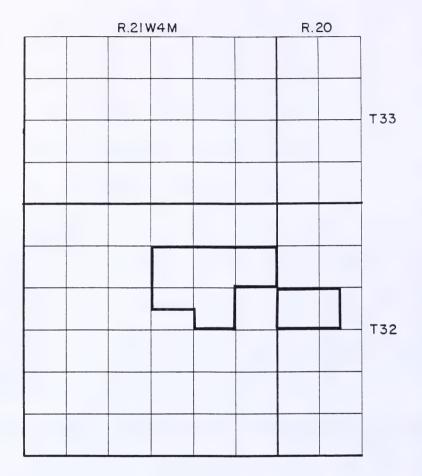
\*Unitized Zone - Basal Belly River "A" Sand

\*Unitized Substance - Natural gas

Working Interest Owners	Per Cent Participation
American Eagle Petroleums Ltd.	5.673555
Amoco Canada Resources Ltd.	9.523150
Atcor Ltd.	5.673556
CEC Resources Ltd.	12.912388
Chauvco Resources Ltd.	11.346788
Gulf Canada Resources Limited	49.203011
Kerr-McGee Corporation	3.492586
Murphy Oil Company Limited	0.416670
PanCanadian Petroleum Limited	1.758296
	100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



ROWLEY BELLY RIVER GAS UNIT NO. I

INITIAL EFFECTIVE DATE - MARCH 1, 1976

UNIT OPERATOR - GULF CANADA RESOURCES LIMITED

# RYCROFT HALFWAY UNIT NO. 1

Located in the Rycroft Field

Unit Operator - PanCanadian Petroleum Limited

Initial Effective Date - 1 November 1987

Participation Revised - 1 February 1990

\*Unitized Zone - Halfway Formation

\*Unitized Substance - Petroleum, natural gas, and other hydrocarbons (except coal)

# Working Interest Owners

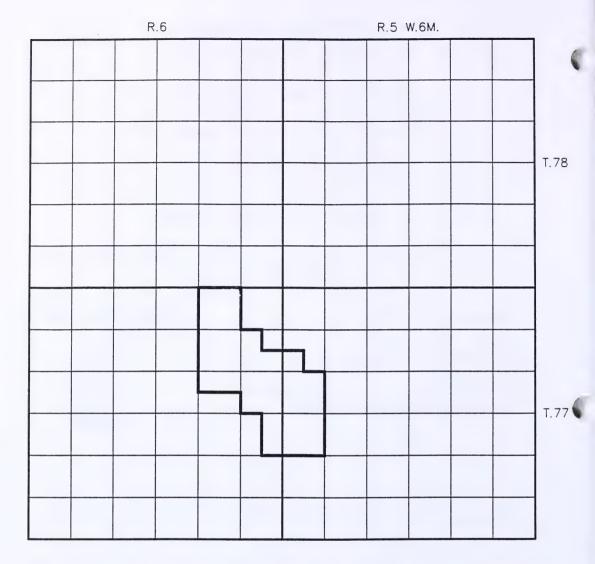
# Chauvco Resources Ltd. Esso Resources Canada Limited PanCanadian Petroleum Limited Propetro Corp. Saskatchewan Oil and Gas Corporation Thomson-Jensen Petroleum Limited

# Per Cent Participation

7.502024	
22.735895	
49.507790	
6.376094	
11.542397	
2.335800	
100.000000	

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



RYCROFT HALFWAY UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE- 1 NOVEMBER 1987
UNIT OPERATOR-PANCANADIAN PETROLEUM LIMITED

# SOUTH BUCK LAKE CARDIUM UNIT NO. 1

Located in the Minnehik-Buck Lake Field

Unit Operator - Norcen Energy Resources Limited

Initial Effective Date - 1 May 1969

Participation Revised - 1 February 1989

\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

# Working Interest Owners

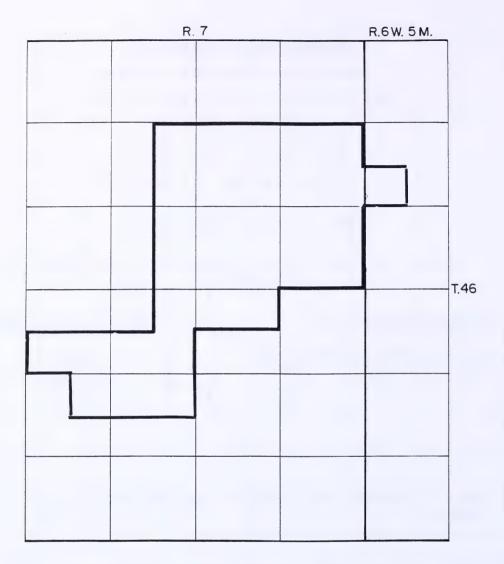
Enerplus Resources Corporation Norcen Energy Resources Limited Texaco Canada Resources

# Per Cent Participation

9.7036 70.1653 20.1311 100.0000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



SOUTH BUCK LAKE CARDIUM UNIT NO. I

# SOUTH GARRINGTON CARDIUM B UNIT NO. 1

Located in the Garrington Field

Unit Operator - Sabre Energy Ltd.

Initial Effective Date - 1 October 1964

Participation Revised - 1 March 1990

\*Unitized Zone - Cardium "B" Formation

\*Unitized Substance - Petroleum natural gas and other hydrocarbons (except coal)

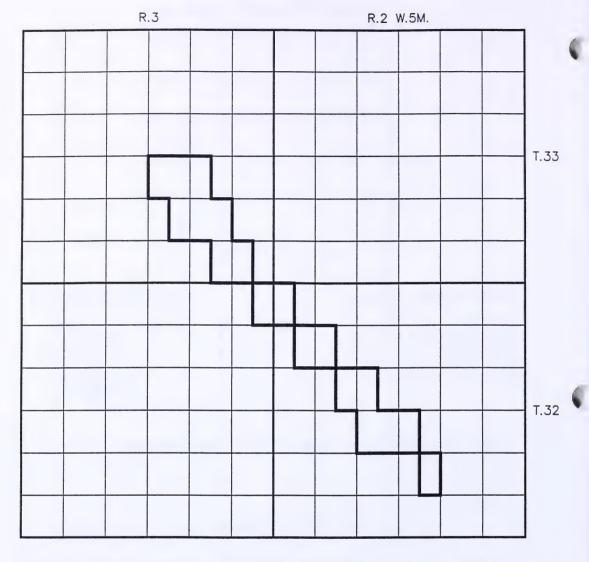
# Working Interest Owners Per Cent Participation Esso Resources Canada 7.723280 Helios Petroleum Ltd. 5.000000 kh resources 1td. 35.286890 Rhodes Energy Corporation 0.614262 Sabre Energy Ltd. 51.375568

(For Area - See Reverse Side)

ENERGY RESOURCES CONSERVATION BOARD Calgary, Alberta

100.000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents.



SOUTH GARRINGTON CARDIUM B UNIT NO.1



INITIAL EFFECTIVE DATE- 1 OCTOBER 1964 UNIT OPERATOR-SABRE ENERGY LTD.

# SOUTH PEMBINA CARDIUM UNIT

Located in the Pembina Field

Unit Operator - Amoco Canada Petroleum Company Ltd.

Initial Effective Date - 1 December 1964

Participation Revised - 1 February 1990

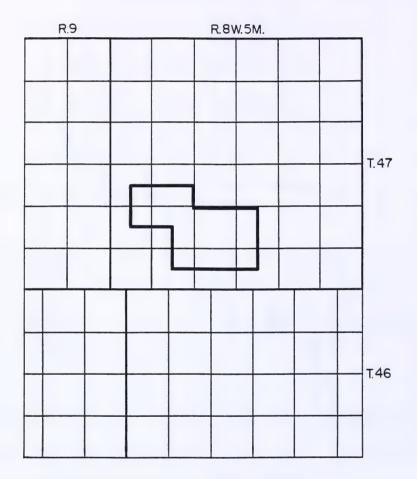
\*Unitized Zone - Cardium Formation

\*Unitized Substance - Petroleum, natural gas and other hydocarbons (except coal)

Working Interest Owners	Per Cent Participation	
	Interim	Final
Amoco Canada Petroleum Company Ltd.	43.10000	41.76667
Amoco Canada Resources Ltd.	43.10000	41.76667
Benedum-Trees Oil Company	3.45000	4.11666
Encor Energy Corporation Inc.	10.35000	12.35000
	100.00000	100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# SOUTH PEMBINA CARDIUM UNIT

INITIAL EFFECTIVE DATE-DECEMBER 1, 1964

UNIT OPERATOR - AMOCO CANADA PETROLEUM COMPANY LTD

### SOUTH THREE HILLS CREEK UNIT

Located in the Three Hills Creek Field

Unit Operator - Atlantis Resources Ltd.

Initial Effective Date - 17 January 1964

Participation Revised - 1 February 1990

\*Unitized Zone - Pekisko Formation

\*Unitized Substance - Natural gas, condensate and other hydrocarbons (except coal and crude oil)

# Working Interest Owners

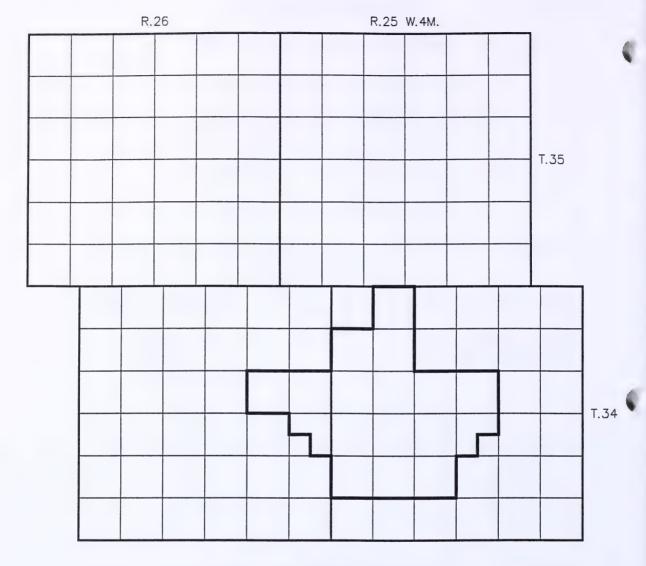
Atlantis Resources Ltd. Murphy Oil Company Ltd. Shell Canada Limited

# Per Cent Participation

68.7322 21.0330 10.2348 100.0000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# SOUTH THREE HILLS CREEK UNIT

ERCB

INITIAL EFFECTIVE DATE- 17 JANUARY 1964 UNIT OPERATOR-ATLANTIS RESOURCES LTD.

# SWAN HILLS UNIT NO. 1

Located in the Swan Hills Field

Unit Operator - Home Oil Company Limited

Initial Effective Date - 1 January 1963

Participation Revised - 30 September 1989

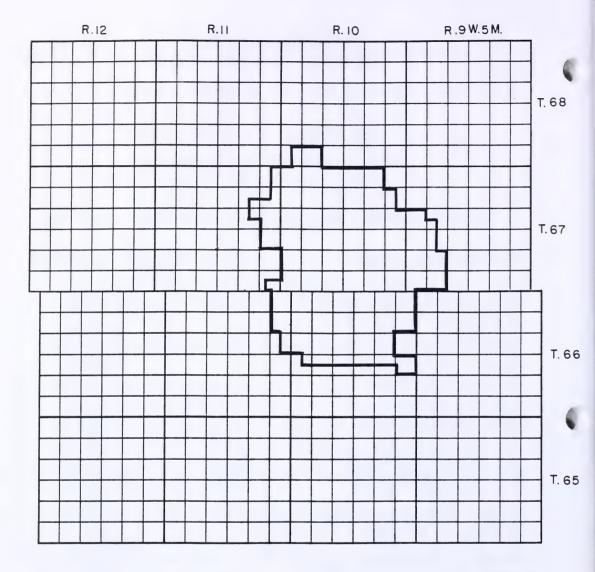
\*Unitized Zone - Swan Hills Member

\*Unitized Substance - Petroleum, natural gas and other hydocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amerada Minerals Corporation of Canada Ltd.	1.0455030
Amoco Canada Petroleum Company Ltd.	14.4474685
Amoco Canada Resources Ltd.	0.0275790
Balmer Enterprises, Inc.	0.0272774
Benedum-Trees Oil Company	0.2030238
BP Resources Canada Limited	1,9280706
Canadian Kenwood Company	0.6890651
Chair Holdings Ltd.	0.2332560
Corvair Oils Ltd.	0.0756917
Denison Mines Limited	0.3337640
Encor Energy Corporation Inc.	0.6240712
Esso Resources Canada	18.6600542
Esso Resources Canada Limited	0.1631170
Esso Resources Enterprises Ltd.	1.3868515
Gulf Canada Resources Limited	17.0013992
Home Oil Company Limited	17.2802734
Luscar Ltd.	1.4381363
Peter J. McMahon U.SCanada Partnership	0.1002323
Estate of R. W. McMahon	0.0539132
Mobil Oil Canada	12.2106815
Murphy Oil Company Ltd.	1.2067858
Norcen Energy Resources Limited	0.2710628
Petro-Canada Inc.	4.8616328
Phillips Petroleum Canada Ltd.	0.5002590
Ranger Oil Limited	0.4398755
Sabre Energy Ltd.	0.0387878
Shell Canada Limited	0.0737607
Suncor Inc.	1.9474812
Total Petroleum Canada Ltd.	2.2983000
Total Petroleum (North America) Ltd.	0.4226255
	100.0000000

\*For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



SWAN HILLS UNIT NO. I

INITIAL EFFECTIVE DATE - I JANUARY 1963

UNIT OPERATOR - HOME OIL COMPANY LIMITED



# THREE HILLS CREEK PEKISKO UNIT NO. 1

Located in the Three Hills Creek Field

Unit Operator - Atlantis Resources Ltd.

Initial Effective Date - 1 January 1961

Participation Revised - 1 January 1990

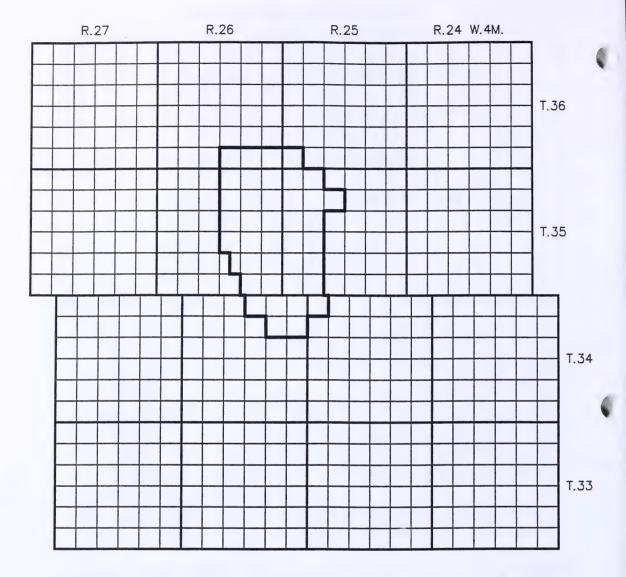
\*Unitized Zone - Pekisko Formation

\*Unitized Substance - Gas

### Working Interest Owners Per Cent Participation Atlantis Resources Ltd. 36.9489 Canadian Occidental Petroleum Ltd. 0.6691 Chevron Canada Resources 4.6834 Esso Resources Canada 9.1355 Esso Resources Canada Limited 7.5019 Husky Oil Operations Ltd. 1.0319 Lincoln-McKay Development Company Ltd. 1.3382 Murphy Oil Company Ltd. 17.9555 North Canadian Oils Limited 5.6200 Petro-Canada Inc. 10.5020 Petroterra Natural Resources Ltd. 1.3286 Scurry-Rainbow Oil Limited 3.2850 100,0000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



THREE HILLS CREEK PEKISKO UNIT NO. 1



INITIAL EFFECTIVE DATE- 1 JANUARY 1961 UNIT OPERATOR-ATLANTIS RESOURCES LTD.

# VIRGINIA HILLS BHL UNIT NO. 2

Located in the Judy Creek and Virginia Hills Fields

Unit Operator - Cooperative Energy Development Corporation

Initial Effective Date - 1 October 1979

Participation Revised - 1 February 1990

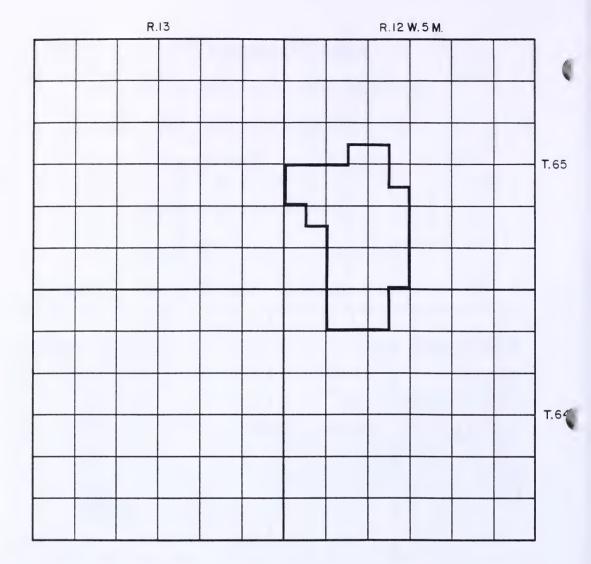
\*Unitized Zone - Beaverhill Lake Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Limited	11.36225
Atcor Ltd.	1.23808
Canadian Superior Oil Ltd.	7.71675
Chauvco Resources Ltd.	1.23809
Cooperative Energy Development Corporation	23.59056
CWCP Resources Inc.	1.23809
Home Oil Company Limited	12.15438
Lario Oil & Gas Company	25.85588
NCE 011 & Gas (86-1) Ltd.	1.23808
Unocal Canada Resources	14.36784
	100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# VIRGINIA HILLS BHL UNIT NO. 2



INITIAL EFFECTIVE DATE - 1 OCTOBER 1979

UNIT OPERATOR - COOPERATIVE ENERGY DEVELOPMENT CORPORATION

# VIRGINIA HILLS UNIT NO. 1

Located in the Virginia Hills Field

Unit Operator - Shell Canada Limited

Initial Effective Date - 1 September 1963

Participation Revised - 1 March 1990

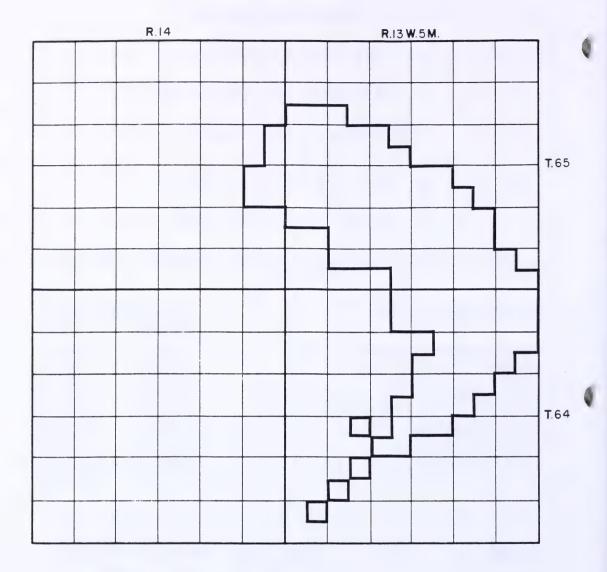
\*Unitized Zone - Swan Hills Member

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Pa	rticipation
	Interim	Final
Amoco Canada Resources Ltd.	17.866707	19.766389
Canadian Superior Oil Ltd.	3.551651	3.817274
Esso Resources Canada	1.264880	0.624616
Esso Resources Canada Limited	3.856996	2.052260
Gulf Canada Resources Limited	1.323822	0.225114
Home Oil Company Limited	10.654947	11.451835
Petro-Canada Inc.	7.090065	4.653564
Shell Canada Limited	40.184331	42.139833
Unocal Canada Resources	14.206601	15.269115
	100.000000	100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# VIRGINIA HILLS UNIT NO. I

ERCB

INITIAL EFFECTIVE DATE-I SEPTEMBER 1963 UNIT OPERATOR- SHELL CANADA LIMITED

### WAINWRIGHT COLONY SAND GAS UNIT NO. 1

Located in the Wainwright Field

Unit Operator - Sceptre Resources Limited

Initial Effective Date - 1 August 1973

Participation Revised - 1 February 1990

\*Unitized Zone - Colony Sand

\*Unitized Substance - Gas

# Working Interest Owners

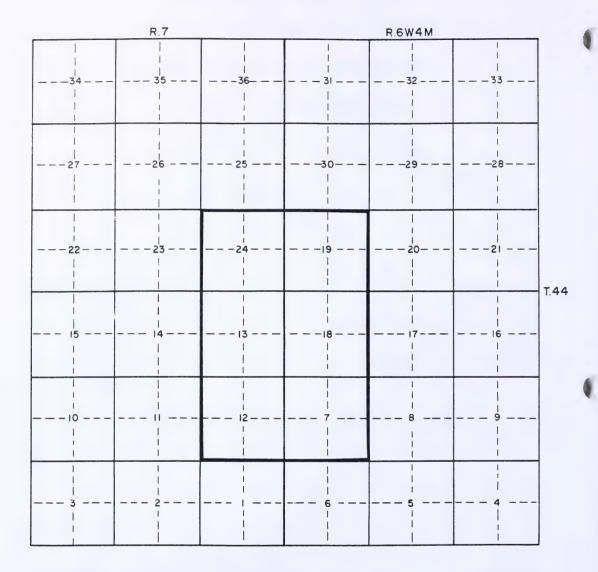
Alba Petroleum Corporation
Esso Resources Canada Limited
Mikaud Oils Ltd.
Byron S. Miller, Trustee
Sceptre Resources Limited

### Per Cent Participation

17.9054125
27.0270000
1.3513500
17.9054125
35.8108250
100.0000000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



WAINWRIGHT COLONY SAND GAS UNIT NO.1



INITIAL EFFECTIVE DATE - I AUGUST 1973
UNIT OPERATOR - SCEPTRE RESOURCES LIMITED

# WAINWRIGHT UNIT NO. 2

Located in the Wainwright Field

Unit Operator - Husky Oil Operations Ltd.

Initial Effective Date - 1 October 1962

Participation Revised - 1 March 1990

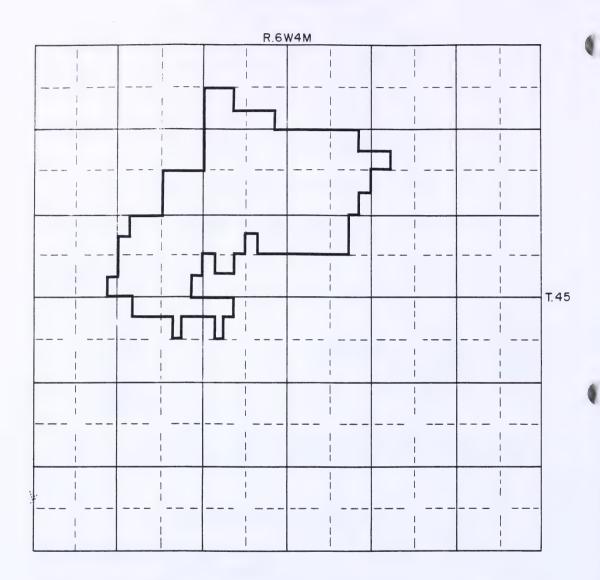
\*Unitized Zone - Wainwright Wainwright Pool

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Amoco Canada Resources Ltd.	4.7293
Convoy Capital Corp.	0.6486
Corexcal, Inc.	0.5925
Husky Oil Operations Ltd.	61.9299
Pacific Enterprises Oil Company	0.9114
Pembina Resources Limited	24.3554
Petrorep (Canada) Ltd.	6.1441
Ranchmen's Resources Ltd.	0.6888
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# WAINWRIGHT UNIT NO. 2

UNIT OPERATOR- HUSKY OIL OPERATIONS LTD.

ERCB INITIAL EFFECTIVE DATE - I OCTOBER 1962

### WAINWRIGHT UNIT NO. 4

Located in the Wainwright Field

Unit Operator - Petro-Canada Inc.

Initial Effective Date - 1 August 1962

Participation Revised - 1 June 1989

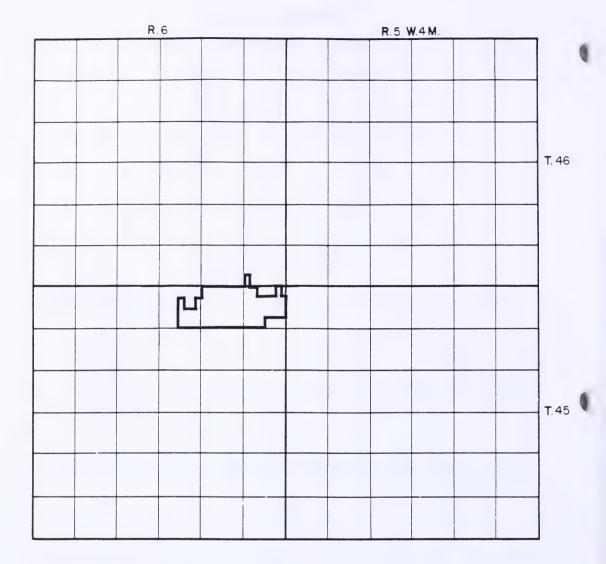
\*Unitized Zone - Wainwright Wainwright Pool

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Bankeno Resources Ltd.	3.535729
D & J Developments Limited	1.177072
R. D. Pearson	0.919098
Petro-Canada Inc.	92.013957
Spruce Hills Production Co. Inc.	1.177072
Wrangler Management Ltd.	1.177072
	100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



WAINWRIGHT UNIT NO.4
INITIAL EFFECTIVE DATE - I AUGUST 1962
UNIT OPERATOR - PETRO-CANADA INC.



### WARBURG BELLY RIVER "M" UNIT

Located in the Pembina Field

Unit Operator - BP Resources Canada Limited

Initial Effective Date - 1 October 1969

Participation Revised - 1 February 1990

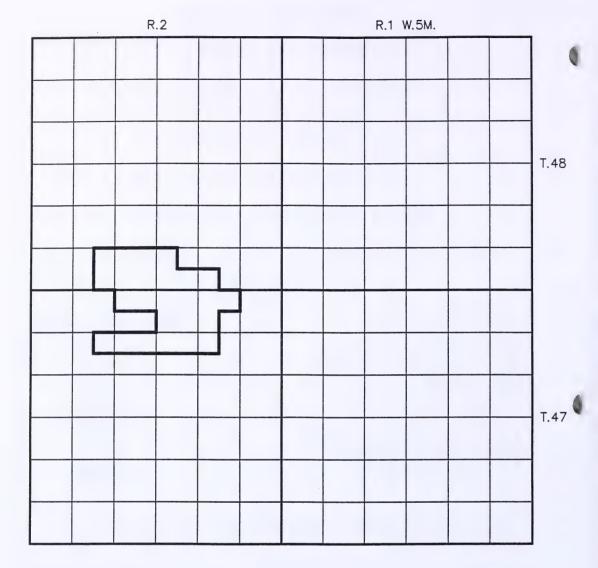
\*Unitized Zone - Basal Belly River Sand Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

### Working Interest Owners Per Cent Participation 17.28416 Amoco Resources Canada Ltd. BP Resources Canada Limited 39.38038 Chevron Canada Resources Limited 19.73671 CWCP Resources Inc. 4.04538 Ice River Oil & Gas Ltd. 0.33804 Joule Resources Inc. 0.33804 Kerr-McGee Corporation 6.29066 Norcen Energy Resources Limited 7.03880 Norwich Resources Canada Ltd. 4.87176 Ranchmen's Resources Ltd. 0.67607 100.00000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



WARBURG BELLY RIVER M UNIT

ERCB

INITIAL EFFECTIVE DATE- 1 OCTOBER 1969
UNIT OPERATOR-BP RESOURCES CANADA LIMITED

# WILLESDEN GREEN VIKING H UNIT NO. 1

Located in the Willesden Green Field

Unit Operator - Amerada Minerals Corporation of Canada Ltd.

Initial Effective Date - 1 October 1986

Participation Revised - 1 February 1990

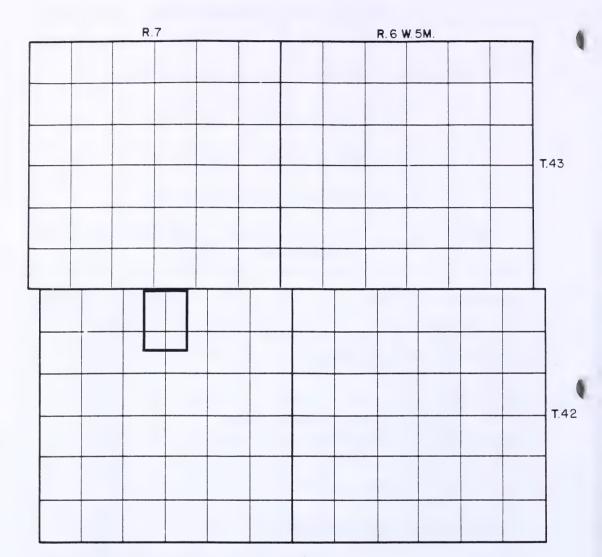
\*Unitized Zone - Viking H Formation

\*Unitized Substance - Petroleum, natural gas and other hydrocarbons (except coal)

Working Interest Owners	Per Cent Participation
Altont Holdings Ltd.	0.5760
Amerada Minerals Corporation of Canada Ltd.	20.0000
BP Resources Canada Limited	15.7500
Central Capital Management Inc.	18.7220
Chauvco Resources Ltd.	9.7000
DeKalb Energy Canada Ltd.	7.8750
Douchar Resources Ltd.	0.2367
Harvard Canadian Acquisition Program 1987-LP	1.8541
Northern Reef Exploration Ltd.	1.6210
Pembina Resources Limited	7.8750
O. M. Sachkiw Holdings Ltd.	1.5520
Leonard Shapiro	0.2600
Spindle-Top Investments Ltd.	0.2770
Sylva Resources Ltd.	1.1832
TAI Resources Ltd.	6.0020
Trans-Dominion Energy Corporation	3.1010
Wilderness Energy Limited	3.4150
	100.0000

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents

(For Area - See Reverse Side)



# WILLESDEN GREEN VIKING H UNIT NO.1



INITIAL EFFECTIVE DATE - 1 OCTOBER 1986
UNIT OPERATOR - AMERADA MINERALS CORPORATION OF CANADA LTD.

# WILSON CREEK UNIT NO. 1

Located in the Minnehik-Buck Lake Field

Unit Operator - Amerada Minerals Corporation of Canada Ltd.

Initial Effective Date - 1 June 1965

Participation Revised - 1 June 1989

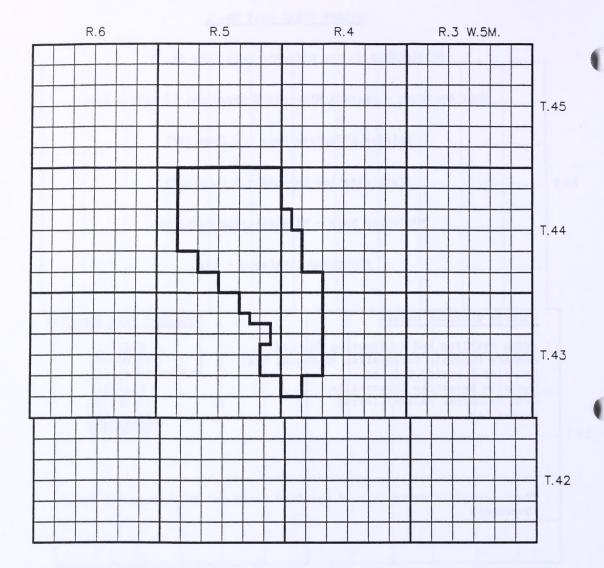
\*Unitized Zone - Mississippian Formation

\*Unitized Substance - Gas

Working Interest Owners	Per Cent Participation
Adeco Drilling and Engineering Co. Ltd.	0.827301
Amerada Minerals Corporation of Canada Ltd. Canadian Superior Oil Ltd.	36.000375 20.837828
Enerplus Resources Corporation Esso Resources Canada Limited	0.827301 17.925333
Luscar Ltd.	23.581862 100.000000

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



WILSON CREEK UNIT NO.1

ERCB

INITIAL EFFECTIVE DATE- 1 JUNE 1965
UNIT OPERATOR-AMERADA MINERALS CORPORATION OF CANADA LTD.

# WOOD RIVER D-2C UNIT

Located in the Wood River Field
Unit Operator - Home Oil Company Limited

Initial Effective Date - 1 August 1980

Participation Revised - 1 January 1990

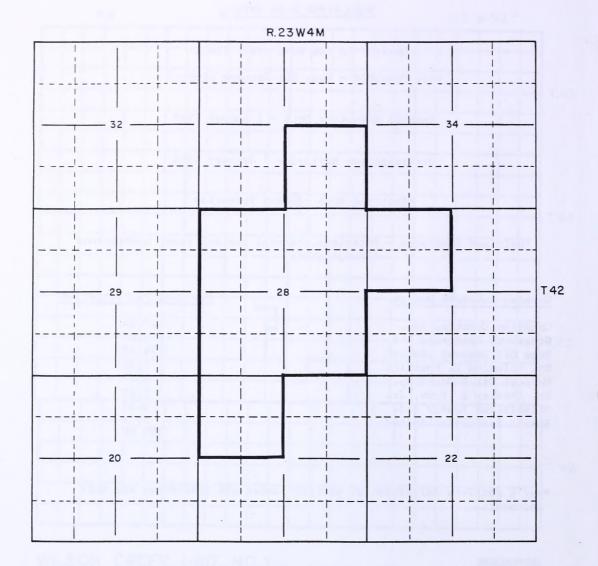
\*Unitized Zone - Nisku Formation

\*Unitized Substance - Petroleum, natural gas and other hydocarbons (except coal)

Working Interest Owners	Per Cent Participation
Canadian Cometra, Inc.	22.24
Greystone Resources Ltd.	0.25
Home Oil Company Limited	54.43
Mr. Helenius F. Koetsier	1.30
Norwest Oil & Gas Corp.	4.79
Mr. Stanley R. Rawn, Jr.	7.43
Silverstone Energy Ltd.	2.39
Summit Resources Limited	7.17
	100.00

(For Area - See Reverse Side)

<sup>\*</sup>For a complete definition of unitized zones and substances see Unit Documents



# WOOD RIVER D-2C UNIT

ERCB

INITIAL EFFECTIVE DATE - I AUGUST 1980
UNIT OPERATOR - HOME OIL COMPANY LIMITED